# JVC

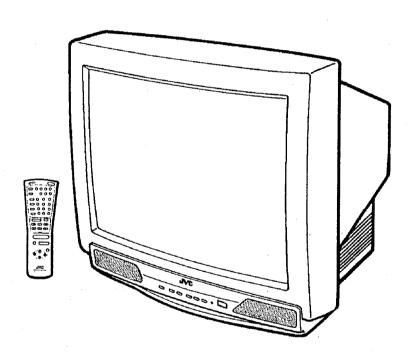
# SERVICE MANUAL

# **COLOR TELEVISION**

AV-27750(US&CA)

**BASIC CHASSIS** 

GKII



# **CONTENTS**

	SPECIFICATIONS			. 2	2
	SAFETY PRECAUTIONS				3
	FEATURES			. 4	4
	DIFFERENCE LIST OF MAIN PARTS			. 4	1
$\star$	COPERATING INSTRUCTIONS(APPENDED)	1-1	~	1-16	6
	SPECIFIC SERVICE INSTRUCTIONS				5
	SERVICE ADJUSTMENTS			10	J
*	STANDARD CIRCUIT DIAGRAM(APPENDED)	2-1	~	2-24	1
	PARTS LIST			25	5

# **SPECIFICATIONS**

ltem	Content	·
Dimensions (W×H×D) Mass	25-7/8" × 23-1/8" × 20-1/2" / 65.5cm × 58.6cm × 51.8cm 73.3lbs / 33.3kg	
TV System and Color system TV RF System Color System Sound System	CCIR (M) NTSC BTSC (Multi Channel Sound)	
TV Receiving Channels and Frequency VL Band VH Band UHF Band	(02 ~ 06) 54MHz ~ 88MHz (07 ~ 13) 174MHz ~ 216MHz (14 ~ 69) 470MHz ~ 806MHz	
CATV Receiving Channels and Frequency (Quartz Synthesizer system) Low Band High Band Mid Band Super Band Hyper Band ULTRA Band Sub Mid Band TV/CATV Total Channel	(02 ~ 06, A-8) by (02 ~ 06&01) (07 ~ 13) by (07 ~ 13) (A ~ 1) by (14 ~ 22) (J ~ W) by (23 ~ 36) (W+1 ~ W+28) by (37 ~ 64) (W+29 ~ W+84) by (65 ~ 125) (A8, A4 ~ A1) by (01, 96 ~ 99) 180 Channels	iHz)
Intermediate Frequency Video IF Carrier Sound IF Carrier Color Sub Carrier	45.75MHz 41.25MHz (4.5MHz) 3.58MHz	
Antenna terminal Power Input Power Consumption Input Current Picture Tube Viewable Picture Size (W × H) High Voltage Speaker Audio Power Output	75Ω (VHF/UHF) Terminal, F-Type Connector 120V AC, 60Hz 120W(US) 1.5A(CA) 27"(69cm) measured diagonally, Full Square 21-5/16" × 16" / 54.1cm × 40.6cm 30kV ± 1.3kV (at zero beam current) 2"×4-3/4" / 5 × 12cm Oblong Type × 2 3W×2	
Input (1, 2 )	Video : 1 Vp-p 75Ω (RCA pin jack) Audio : 500 mV rms (-4dBs), High Impedance (RCA pin jack)	
S-VIDEO IN  Variable / Fix Audio Output	<ul> <li>Y : 1 Vp-p positive (negative sync provided, when terminated with 75Ω)</li> <li>C : 0.286 Vp-p ( burst signal, when terminated with 75Ω)</li> <li>Variable: More than 0~1550mV rms (+6dBs)         <ul> <li>Low Impedance (400Hz when modulated 100%) (RCA pin jack)</li> </ul> </li> <li>Fix: 500 mV rms (-4dBs)         <ul> <li>Low Impedance (400Hz when modulated 100%) (RCA pin jack)</li> </ul> </li> </ul>	
AV Compulink Input	RECEIVER / AMP : 3.5mm mini jack VCR ONLY : 3.5mm mini jack	
Remote Control Unit	RM-C742-1C (AA/R6/UM-3 dry battery ×2)	

Design & specification subject to change without notice.

# SAFETY PRECAUTIONS

- The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by shading on the schematics and by (A) on the parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
- 4. Use isolation transformer when hot chassis.

The chassis and any sub-chassis contrained in some products are connected to one side of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the HOT chassis is exposed.

 Don't short between the LIVE side ground and ISOLAT-ED(NEUTRAL) side ground or EARTH side ground when repairing.

Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE: (\_\_\_\_) side GND, the ISO-LATED(NEUTRAL): (\_\_\_\_\_) side GND and EARTH: (\_\_\_\_\_) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.

If above note will not be kept, a fuse or any parts will be broken.

- If any repair has been made to the chassis, it is recommended that the B<sub>1</sub> setting should be checked or adjusted (See ADJUSTMENT OF B<sub>1</sub> POWER SUPPLY).
- 7. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
- 8. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a  $10k\Omega$  2W resistor to the anode button.
- 9. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

#### 10. Isolation Check

#### (Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs,metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

#### (1) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.

(.... Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)

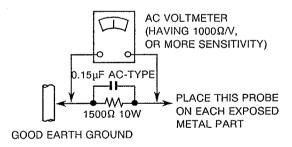
This method of test requires a test equipment not generally found in the service trade.

#### (2) Leakage Current Check

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

#### Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500 $\Omega$  10W resistor paralleled by a 0.15µF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.35V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).



#### 11. High voltage hold down circuit check.

After repair of the high voltage hold down circuit, this circuit shall be checked to operate correctly.

See item "How to check the high voltage hold down circuit".

# **FEATURES**

- New chassis design enables use of a main board with simplified circuitry.
- Comb filter improved picture quality.
- Provided with miniature tuner (TV / CATV)
- Full-square CRT (cathode ray tube) reproduces fine textured picture in every detail.
- PLL synthesizer system TV / CATV totaling 180 channels.
- AV COMPU LINK terminals allow simultaneous mode switching of the TV, connected receiver (or amplifier) and/or VCR.
- Closed-caption broadcasts can be viewed.
- With AUDIO. VIDEO INPUT terminal.
- S-VIDEO input terminal for taking best advantage of Super VHS.
- Variable audio output terminal.
- Built-in PIP system.
- An auto demonstration function demonstrates the features of this model.
- I<sup>2</sup>C bus control utilizes single chip ICs.

# DIFFERENCE LIST OF MAIN PARTS

$\triangle$	Part name	AV-27750(US)	AV-27750(CA)
Δ	RATING LABEL	CM23034-001-A	CM22999-001-A
$\triangle$	INST BOOK (FRENCH)	×	CQ40199-001-A
	REGI.CARD	BT-51006-1Q	×
	SVC CENTER LIST	×	BT-20071B-Q
	WARRANTY CARD	×	BT-52002-1Q

# SPECIFIC SERVICE INSTRUCTIONS

# REPLACEMENT OF CHIP COMPONENT

### **ECAUTIONS**

- 1. Avoid heating for more than 3 seconds.
- 2. Do not rub the electrodes and the resist parts of the pattern.
- 3. When removing a chip part, melt the solder adequately.
- 4. Do not reuse a chip part after removing it.

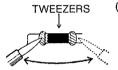
### SOLDERING IRON

- 1. Use a high insulation soldering iron with a thin pointed end of it.
- 2. A 30w soldering iron is recommended for easily removing parts.

#### **EREPLACEMENT STEPS**

#### 1. How to remove Chip parts

- •Resistors, capacitors, etc
- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



(2) Shift with tweezers and remove the chip part.



- •Transistors, diodes, variable resistors, etc
- (1) Apply extra solder to each lead.



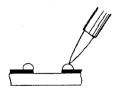
(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



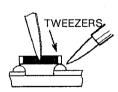
Note: After removing the part, remove remaining solder from the pattern.

### 2. How to install Chip parts

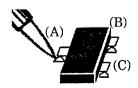
- •Resistors, capacitors, etc
- Apply solder to the pattern as indicated in the figure.

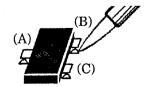


(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.



- •Transistors, diodes, variable resistors, etc
- Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead A as indicated in the figure.
- (4) Then solder leads B and C.





### **DISASSEMBLY PROCEDURE**

#### REMOVING THE REAR COVER

- 1. Unplug the power supply cord.
- 2. Remove the nine screws marked A as shown in Fig. 2.
- \* When reinstalling the rear cover, carefully push it inward after inserting the chassis into the rear cover groove.

#### REMOVING THE CHASSIS

- · After removing the rear cover.
- Slightly raise the both sides of the chassis by hand and remove the two claws under the both sides of the chassis from the front cabinet.
- When conducting a check with power supplied, be sure to confirm that the CRT earth wire is connected to the CRT SOCKET PWB and the MAIN PWB.

### REMOVING THE FRONT CONTROL PW BOARD

- · After removing the rear cover and chassis.
- 1. Remove the 2 screws marked © as shown in Fig. 2.
- 2. Remove the FRONT CONTROL PW BOARD toward you.

#### REMOVING THE TERMINAL BOARD

- · After removing the rear cover.
- 1. Remove the 4 screws marked as shown in Fig. 2.
- After removing the claw marked (E) from the AV JACK PWB in the direction of arrow mark as shown in Fig.1, remove the 2 claws marked (E) in the direction of arrow mark, then take off the TERMINAL BOARD in the direction of arrow marked (G).

#### REMOVING THE ANT SPLITTER

1. Remove a screw marked (H) as shown Fig.1.

#### CHECKING THE MAIN PW BOARD

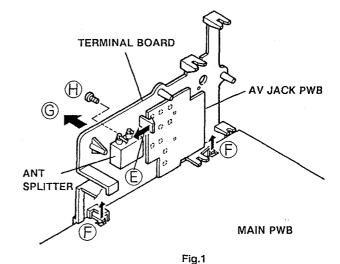
- 1. To check the back side of the MAIN PW Board.
  - 1) Pull out the chassis. (Refer to REMOVING THE CHASSIS).
  - Erect the chassis vertically so that you can easily check the back side of the MAIN PW Board.

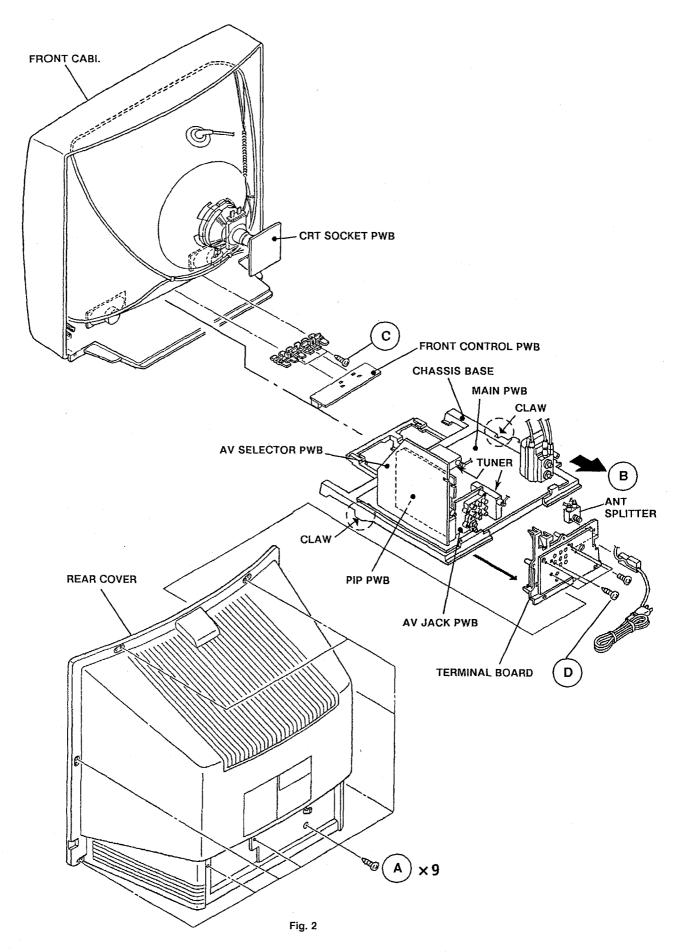
#### [CAUTION]

- When erecting the chassis, be careful so that there will be no contacting with other PWB.
- Before turning on power, make sure that the wire connector,
   CRT earth wire and other connectors properly connected.

#### WIRE CLAMPING AND CABLE TYING

- 1. Be sure to clamp the wire.
- Never remove the cable tie used for tying the wires together.Should it be inadvertently removed, be sure to tie the wires with a new cable tie.





# MEMORY IC REPLACEMENT

# 1. Memory IC

This model uses a memory (EEP-ROM) IC.

The memory IC stores data for proper operation of the video and deflection circuits.

When replacing, be sure to use an IC containing this (initial value) data.

2 Memory IC replacement procedure

	Procedure	Screen display
(1)	Power off Switch off the power and disconnect the power cord from the outlet.	
(2)	Replace the memory IC. Initial value must be entered into the new IC.	
(3)	Power on Connect the power cord to the outlet and switch on the power.	
1) 2) 3) 4)	System constant check and setting Simultaneously press the DISPLAY key and VIDEO STATUS key of the remote control unit.  The SERVICE MENU screen of Fig. 1 is displayed.  While the SERVICE MENU is displayed, again simultaneously press the DISPLAY and VIDEO STATUS keys to display the Fig. 2 SYSTEM CONSTANT screen.  Refer to the SYSTEM CONSTANT table and check the setting items. Where these differ, select the setting item with the MENU UP / DOWN key and adjust the setting with the MENU LEFT / RIGHT keys.(The letters of the selected item are displayed in yellow.) After adjusting, release the MENU LEFT / RIGHT key to store the setting value. Press the EXIT key twice to return the normal screen.	SERVICE MENU  PICTURE SOUND THEATER OTHERS PIP LOW LIGHT HIGH LIGHT RF AFC 1 RF AFC 2 I2C BUS CTRL  SELECT BY Y OPERATE BY EXIT BY
	Receive channel setting Refer to the OPERATING INSTRUCTIONS(USER'S GUIDE) and set the receive channels (Channels Preset) as described.  User settings	SYSTEM CONSTANT  MODEL : AV-27750  CCD : YES  SELECT BY
(0)	Check the user setting items According to Table 2.  Where these do not agree, refer to the OPERATING INSTRUCTIONS(USER'S GUIDE) and set the items as described.	OPERATE BY Fig. 2
(7)	SERVICE MENU setting  Verify what to set in the SERVICE MENU, and set whatever is necessary. (Fig. 1) refer to the SERVICE ADJUSTMENT for setting.	

TABLE 1 (System Constant setting)

Setting item	Setting constant	Setting value
	→ AV-27730 → AV-27750 → AV-27770 ¬	
MODEL	→ AV-32720 → AV-32730 → AV-32750 ¬	AV-27750
	L→ AV-32770 → AV-35750 → AV-35770	
CCD	→ YES→ NO —	YES

### TABLE 2 (User setting)

Setting Item	Setting Value	Setting Item	Setting Value
1. Use remote controller keys POWER CHANNEL VOLUME TV / VIDEO CLOSED CAPTION HYPER SURROUND	OFF CH - 02 Proper sound volume TV OFF (CC1 / T1) OFF	DISPLAY VIDEO STATUS SLEEP TIMER PIP SOURCE PIP POSITION	OFF STANDARD 00 CH - 02 Lower left
2. Settings from MENU TINT COLOR PICTURE BRIGHT DETAIL  NOTCH NOISE MUTE SET VIDEO STATUS  BASS TREBLE BALANCE MTS  SET CLOCK ON / OFF TIMER SET LOCK CODE	CENTER CENTER CENTER CENTER CENTER OFF ON CENTER CENTER CENTER CENTER CENTER CENTER CHARTER CH	TV SPEAKER AUDIO OUT LANGUAGE CLOSED CAPTION  AUTO TUNER SET UP CHANNEL SUMMARY  TUNER MODE AUTO DEMO	ON FIX ENG CAPTION: CC1 TEXT: T1  OTHERS Set optionally Stations 02 — CBS 04 — NBC 07 — ABC  AIR Unnecessary to set

# SERVICE ADJUSTMENTS

# **ADJUSTMENT PREPARATION:**

- 1. You can make the necessary adjustments for this unit with either the Remote Control Unit or with the adjustment tools and parts as before.
- 2. Adjustment with the Remote Control Unit is made on the basis of the initial setting values; however, the new setting values which set the screen to its optimum condition may differ from the initial settings.
- 3. Turn on the power for the set and test equipment before use, and start the adjustment procedures after waiting at least 30 minutes.
- 4. Make sure that AC power is turned on correctly.
- 5. Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
- 6. Never touch any adjustment parts which are not specified in the list for this adjustment variable resistors, transformers, condensers, etc.
- 7. Presetting before adjustment.

Unless otherwise specified in the adjustment instructions, preset the following functions with the Remote Control Unit:

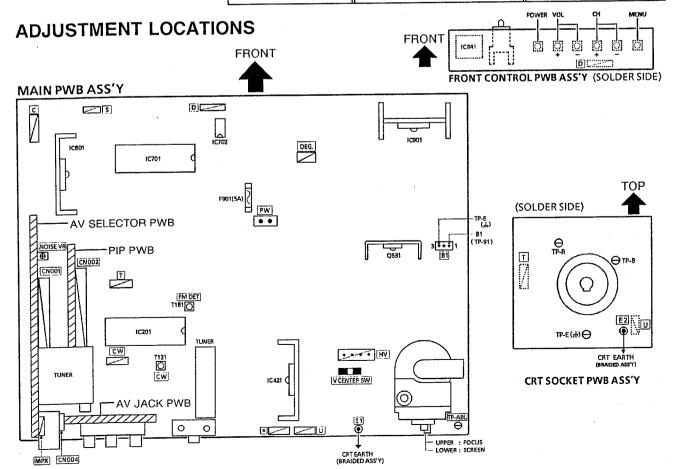
(1) VIDEO STATUS	STANDARD	(3) HYPER SURROUND	OFF
(2) NOTCH	OFF	(4) BASS, TREBLE, BALANCE	CENTER

### **TESTERS & TOOLS**

- 1. DC voltmeter (or digital voltmeter)
- 2. Oscilloscope
- Signal generator (Pattern generator) [NTSC]
- 4. Remote control unit
- 5. TV audio multiplex signal generator
- 6. Frequency counter

### **ADJUSTMENT ITEMS**

Adjustment items	Adjustment items	Adjustment items
B1 voltage check	WHITE BALANCE (Low Light)	PIP CIRCUIT (7 ITEMS)
IF VCO	WHITE BALANCE (High Light)	MTS INPUT LEVEL check
RF. AGC	SUB BRIGHT	MTS STEREO VCO
FOCUS	SUB CONTRAST	MTS SAP VCO
V. CENTER, V. SIZE and V.POSITION	SUB COLOR	MTS FILTER check
H. POSITION	SUB TINT	MTS SEPARATION



## BASIC OPERATION OF SERVICE MENU

- 1. The REMOTE CONTROL UNIT is used for the SERVICE MENU operation.
- 2. In general, the ten basic setting (adjustments) items or verifications are performed in the SERVICE MENU.

(1) PICTURE .....

This sets the setting values (adjustment values) of the VIDEO / CHROMA and DEFLECTION circuits.

(2) SOUND .....

This sets the setting values (adjustment values) of the AUDIO circuit.

(3) THEATER .....

This is used when the THEATER MODE is adjusted.

(4) OTHERS .....

This sets the setting values (adjustment values) of the OTHERS circuit.

(5) PIP ....

This sets the setting values (adjustment values) of the PICTURE-IN-PICTURE circuit.

This sets the setting values (adjustment values) of the WHITE BALANCE circuit.

(6) LOW LIGHT ...

This sets the setting values (adjustment values) of the WHITE BALANCE circuit.

(7) HIGH LIGHT ...

This is used when the IF VCO is adjusted.

(9) RF AFC 2 .....

This is used when the IF VCO is adjusted of the PIP.

(10) I2C BUS CTRL

(8) RF AFC 1 .....

This is used when ON / OFF of the I2C BUS CTRL is set.

- 3. Basic Operations of the SERVICE MENU
- (1) How to enter the SERVICE MENU.
  - 1) Press the DISPLAY KEY and VIDEO STATUS KEY of the REMOTE CONTROL UNIT at the same time to display the SERVICE MENU screen shown in Flg.1.
- (2) SERVICE MENU screen selection
  - 1) Press the UP / DOWN key of the MENU to select any of the following items.(The letters of the selected items are displayed in yellow.)
    - PICTURE
- SOUND
- ◆THEATER
- OTHERS
- PIP
- LOW LIGHT
- HIGH LIGHT
- RF AFC 1
- RF AFC 2
- 12C BUS CTRL
- 2) Select any of PICTURE, SOUND or OTHERS. The screen shown in Fig.2 will be displayed if the LEFT / RIGHT KEY is pressed.
- 3) If the UP / DOWN KEY is pressed, the PICTURE MODE screen shown in Fig.3 or the SOUND MODE screen shown in Fig.4 or the OTHERS MODE screen shown in Fig.5 is displayed and the PICTURE, SOUND or OTHERS setting can be performed.

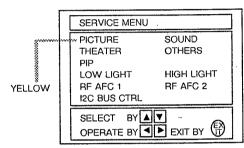


Fig. 1 SERVICE MENU

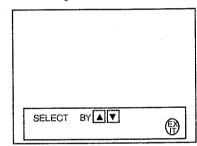


Fig. 2

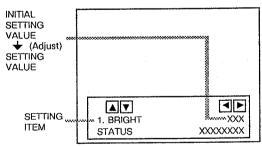


Fig. 3 PICTURE MODE

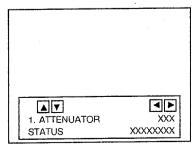


Fig. 4 SOUND MODE

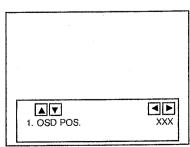
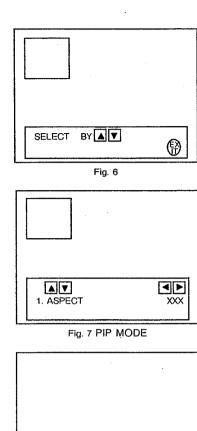


Fig. 5 OTHERS MODE

- 4) Select the PIP, The screen shown in Fig.6 will be displayed in the LEFT / RIGHT KEY is pressed.
- 5) If the UP / DOWN KEY is pressed, the PIP MODE screen shown in Fig.7 is displayed and the PIP setting can be performed.
- 6) If any of the THEATER / LOW LIGHT / HIGH LIGHT / RF AFC 1 / RF AFC 2 / I2C BUS CTRL items are selected and the LEFT / RIGHT KEY is pressed, the screens shown in Fig. 8, 9, 10, 11, 12 and 13 are displayed respectively and the settings or verifications can be performed.



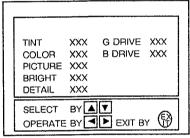


Fig. 8 THEATER MODE

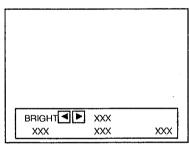


Fig. 9 LOW LIGHT MODE

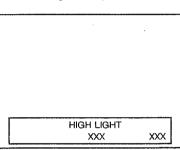


Fig. 10 HIGH LIGHT MODE

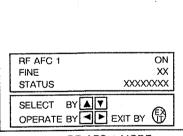


Fig. 11 RF AFC 1 MODE

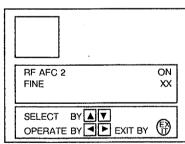


Fig. 12 RF AFC 2 MODE [Do not adjust]

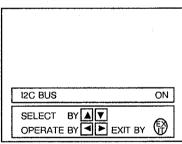
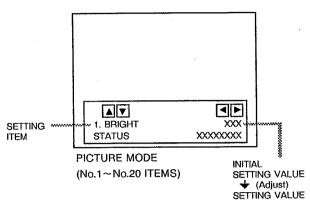


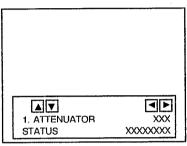
Fig. 13 I2C BUS CTRL MODE [Fixed ON]

- (3) Setting method
  - 1) UP/DOWN key of the MENU Selects the SETTING ITEM
- LEFT/RIGHT key of the MENU
   Setting (adjust) the SETTING VALUE of the SETTING ITEM.
   When the key is released the SETTING VALUE will be stored (memorized).
- 3) EXIT key : Returns to the previous screen.

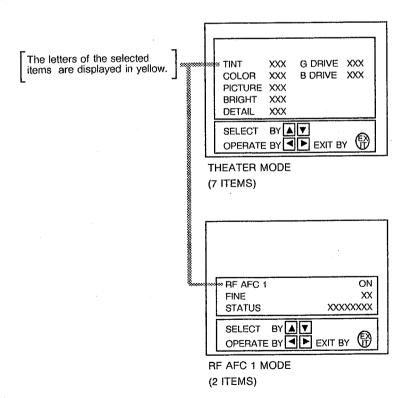
#### (4) Releasing SERVICE MENU

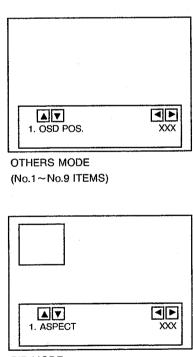
- 1) After returning to the SERVICE MENU upon completion of the setting (adjustment) work, press the EXIT key again.
  - ★ The settings for LOW LIGHT and HIGH LIGHT are described in the WHITE BALANCE page of ADJUSTMENT.
  - ★ The setting for RF AFC 1 are described in the IF VCO page of ADJUSTMENT.





SOUND MODE (No.1~No.14 ITEMS)





PIP MODE
(No.1~No.15 ITEMS)

# INITIAL SETTING VALUE OF SERVICE MENU

- 1. Adjustment of the SERVICE MENU is made on the basis of the initial setting values; however, the new setting values which set the screen in its optimum condition may differ from the initial setting.
- 2. Do not change the Initial Setting Values of the Setting (Adjustment) items not listed in "ADJUSTMENT".

### PICTURE MODE

No.	Setting (Adjustment ) item	Variable range	initial setting value
1.	BRIGHT	0 ~ 127	64
2.	PICTURE	0 ~ 127	75
3.	WPS (WHITE PEAK SUPPRESSOR)	0/1	1
4.	TV DETAIL	0 ~ 63	42
5.	TV BPF (TV B.P.FILTER)	0/1	1
6.	TINT	0 ~ 127	64
7.	COLOR	0 ~ 127	52
8.	EXT BRIGHT	± 25	-1
9.	EXT PICT.	± 25	±0
10.	EXT DETAIL	0 ~ 63	34
11.	EXT BPF (EXT B.P.FILTER)	0/1	1
12.	EXT TINT	± 25	+8
13.	EXT COLOR	± 25	+3
14.	V SIZE	0 ~ 63	32
15.	V CENTER	0 ~ 7	0
16.	H POSITION	0 ~ 31	22
17.	H AFC	0/1	0
18.	BLANKING	0/1	0
19.	RF AGC	0 ~ 63	35
20.	PIF VCO	0 ~ 127	64

### SOUND MODE

No.	Setting (Adjustment ) item	Variable range	initial setting value
1.	ATTENUATOR	0 ~ 63	50
2.	BALANCE	0 ~ 63	32
3.	NOISE DET.	0/1	. 1
4.	IN LEVEL (INPUT LEVEL)	0 ~ 63	29
5.	FH MONITOR	0/1	0
6.	STEREO VCO	0 ~ 63	16
7.	PILOT CAN. (PILOT CANCELER)	01/1	0
8.	FILTER	0 ~ 63	24
9.	LOW SEP. (LOW SEPARATION)	0 ~ 63	28
10.	HI SEP. (HI SEPARATION)	0 ~ 63	23
11.	5FH MON. (5FH MONITOR)	0/1	0
12.	SAP VCO	0 ~ 63	21
13.	IN GAIN (INPUT GAIN)	0/1	0
14.	FIL.OFFSET	0 ~ 10	7

### THEATER MODE

Setting (Adjustment ) item	Variable range	initial setting value
TINT	± 20	±00
COLOR	± 20	-2
PICTURE	± 20	-15
BRIGHT	± 20	± 00
DETAIL	± 15	-3
G DRIVE	-80 ~ +50	-25
B DRIVE	-80 ~ +50	-72

### • OTHERS MODE

NO.	Setting (Adjustment ) item	Variable range	initial setting value
1.	OSD POS.	0 ~ 7	0
2.	CCD POS. (CLOSED CAPTION DECODER POS.)	0 ~ 15	5
3.	SEARCH LN (SEARCH LINE)	0 ~ 15	0
4.	SEARCH MD (SEARCH MODE)	0/1	0
5.	OSD STABI	0/1	0
6.	LOCK DET	0/1	0
7.	MENU COLOR	-30 ~ 0	-10
8.	MENU PICT	-30 ~ 0	-12
9.	MENU BR1	-30 ~ 0	-12

### • PIP MODE

NO. Setting (Adjustment ) item	Variable range	initial setting value
1. ASPECT	0 ~ 31	23
2. V POSITION	0 ~ 127	20
3. LOWER POS.	0 ~ 127	61
4. H POSITION	0 ~ 127	39
5. RIGHT POS.	0 ~ 127	77
6. V AREA	0 ~ 3	2
7. H AREA	0 ~ 3	2
8. CLAMP POS.	0 ~ 3	1
9. FRAME	0~3	3
10. Y / C DELAY	0 ~ 7	4
11. TINT	0 ~ 127	30
12. COLOR	0 ~ 127	85
13. CONTRAST	0 ~ 127	65
14. G GAIN	0 ~ 127	80
15. B GAIN	0 ~ 127	90

### • LOW LIGHT MODE

Setting (Adjustment ) item	Variable range	initial setting value
R CUTOFF	0 ~ 255	20
G CUTOFF	0 ~ 255	20
B CUTOFF	0 ~ 255	20

### HIGH LIGHT MODE

Setting (Adjustment ) item	Variable range	initial setting value
G DRIVE	0 ~ 255	128
B DRIVE	0 ~ 255	128

### RF AFC 1 MODE

Setting (Adjustment ) item	Variable range	initial setting value
RF AFC 1	ON / OFF	ON
FINE	-77~ +77	± 00

### • RF AFC 2 MODE

Setting (Adjustment ) item	Variable range	initial setting value	
RF AFC 2	ON / OFF	ON	Do not
FINE	-77~ +77	XX	adjust

### I2C BUS CTRL MODE

Setting (Adjustment ) item	Variable range	initial setting value
I2C BUS	ON / OFF	Fixed ON

# ADJUSTMENTS

D4	VO	1.	Т٨	GE	CI	4F(	CK.

Item	Measuring instrument	Test point	Adjustment part	Description
B1 voltage check	DC Voltmeter	B1 (B1) Connector 1 pin) (TP-91)		<ol> <li>Receive a monoscope pattern signal.</li> <li>Connect the DC voltmeter to B1 connector 1 pin (TP-91) and TP-E ( ) (B1 connector 3 pin).</li> <li>Confirm that the voltage is DC 136V ± 3V.</li> </ol>
		TP-E(,,,)(B1 Connector 3 pin)		

ADJUSTN Item	Measuring instrument	Test point	Adjustment part	Description
AFC setting voltage:		CW Connector 3 pin	CW TRANSF. (T131)  [RF AFC 1] MODE  The variation must be greater then2.5V ± 1.5V	<ol> <li>Receive the color bar signal.</li> <li>Connect the oscilloscope to pin 3 of the CW connector.</li> <li>Select the [RF AFC 1] MODE of the SERVICE MENU. Set the RF AFC to OFF and FINE to ±00.</li> <li>Turn T131, verify that the AFC output voltage changes quickly between 2.5V±1.5V and then adjust the voltage to 2.5V±0.2V.</li> <li>Return the RF AFC to ON.</li> <li>Cancel the service menu and check that no irregularities are displayed on the screen.If there any irregularities, select [RF AFC 1] MODE on the service menu and verify that FINE is 00 when the AFC is ON. Repeat steps 3 to 5 if necessary.</li> </ol>

# ADJUSTMENT OF RF AGC

RF.AGC adjustment No.19 RF AGC	<ol> <li>Receive a broadcast.</li> <li>Select "No.19 RF AGC" of the PICTURE MODE.</li> <li>Press the MUTE key and turn off color.</li> <li>With the MENU LEFT key, get noise in the screen picture.(0 side of setting value)</li> <li>Press the MENU RIGHT key and stop when noise disappears from the screen.</li> <li>Change to other channels and make sure that there is no irregularity.</li> <li>Press the MUTE key and get color out.</li> </ol>
--------------------------------	---

# ADJUSTMENT OF FOCUS

FOCUS adjustment	Signal generator	FOCUS VR [built-in HVT]	<ol> <li>Receive a crosshatch signal.</li> <li>While looking at the screen, adjust FOCUS VR so that the vertical and horizontal lines will be clear and in fine detail.</li> <li>Make sure that the picture is in focus even when the screen gets darkened.</li> </ol>

ADJUST	MENT OF D	EFLECTION	CIRCUIT	
item	Measuring instrument	Test point	Adjustment part	Description
V.CENTER, V.SIZE and V.POSITION Adjustment  screen size 92%	Signal generator  scrusize		No.14 V SIZE No.15 V CENTER  V.CENTER SW (S1421)  Picture size 100%	<ol> <li>Receive a crosshatch signal.</li> <li>Make sure that the "No.15 V CENTER" of the PICTURE SERVICE MODE is 0.</li> <li>Use the LIFT / RIGHT keys of the MENU to set the initial setting value for the No.14 V SIZE.</li> <li>Adjust the vertical SCREEN size to 92% with the No.14 V SIZE and S1421 (V.CENTER SW).</li> </ol>
	size			
H.POSITON Adjustment	Signal generator		No.16 H POSITION	<ol> <li>Receive a crosshatch signal.</li> <li>select the "No.16 H POSITION" of the PICTURE MODE.</li> <li>Set the initial setting value of the "No.16 H POSITION" with the LEFT / RIGHT key of the MENU.</li> <li>Adjust the "No.16 H POSITION" until the screen will be horizontally centered.</li> </ol>
		·		

ADJUSTMENT OF VIDEO / CHROMA CIRCUIT Measuring Test point Adjustment item Description Item instrument **BRIGHT** WHITE Signal 1. Receive a monoscope pattern signal. generator **BALANCE R CUTOFF** 2. Select the [LOW LIGHT] MODE from the SERVICE MENU. G CUTOFF 3. Set the initial setting value of "BRIGHT" with the LEFT / (Low Light) **B CUTOFF** adjustment RIGHT Key of the Remote control unit. 4. Set the initial setting value of "R CUTOFF", "G CUTOFF" **SCREEN VR** and "B CUTOFF" with the 4 to 9 keys of the Remote control unit. [LOW LIGHT] MODE 5. Display one horizontal line by pressing the ① key of the Remote control unit. 6. Turn the screen VR all the way to the left. 7. Turn the screen VR gradually to the right from the left until either one of the red, blue or green colors appears slightly. G CUTOFF 8. Adjust the two colors which did not appear until the one R CUTOFF **B CUTOFF** horizontal line that is displayed becomes white using the 4 to BRIGHT BRIGHT ▼ XXX 9. Turn the screen VR until the first horizontal line is displayed ΧΧ̈́Χ XXX v XXX 10. Press the @ key to return to the regular screen. 11. Check the PIP brightness and adjust it by the screen VR if it is not optimal. The ③ EXIT key is the cancel key for the WHITE BALANCE. REMOTE CONTROL UNIT EXIT H.LINE ON H.LINE OFF 3 **B** CUTOFF▲ R CUTOFF▲ G CUTOFF▲ 4 5 6 G CUTOFF▼ B CUTOFF♥ R CUTOFF▼ 7 8 9 G DRIVE WHITE Signal 1. Receive a monoscope pattern signal. **B DRIVE** 2. Select the [HIGH LIGHT] MODE in the SERVICE MENU. BALANCE generator 3. Set the initial setting value of "G DRIVE" and "B DRIVE" (High Light) with the 5, 6, 8 and 9 keys of the Remote control unit. adjustment 4. Adjust the screen unit it becomes white using the 5, 6, 8 [HIGH LIGHT] MODE and 9 keys of the Remote control unit. The ③ EXIT key is the cancel key for the WHITE BALANCE. Remote control unit 1 key: H.LINE ON ②key: H.LINE OFF **B DRIVE** G DRIVE 3 key : EXIT ⑤key: G DRIVE ▲ ⑥key : B DRIVE ▲ HIGH LIGHT XXX ∞ XXX ®key: G DRIVE ▼ 

Item	Measuring instrument	Test point	Adjustment item	Description
SUB BRIGHT adjustment			No.1 BRIGHT	<ol> <li>Receive a broadcast.</li> <li>Select "No.1 BRIGHT" of the PICTURE MODE.</li> <li>Set the initial setting value of the "No.1 BRIGHT" with the LEFT / RIGHT key of the MENU.</li> <li>If the brightness is not the best with the initial setting value, make fine adjustment of the "No.1 BRIGHT" unit you get the optimum brightness.</li> </ol>
SUB CONTRAST adjustment			No.2 PICTURE	<ol> <li>Receive a broadcast.</li> <li>Select "No.2 PICTURE" of the PICTURE MODE.</li> <li>Set the initial setting value of the "No.2 PICTURE" with the LEFT / RIGHT key of the MENU.</li> <li>If the contrast is not the best with the initial setting value, make fine adjustment of the "No.2 PICTURE" unit you get the optimum contrast.</li> </ol>
SUB COLOR adjustment			No.7 COLOR	<ol> <li>Receive a broadcast.</li> <li>Select "No.7 COLOR" of the PICTURE MODE.</li> <li>Set the initial setting value of the "No.7 COLOR" with the LEFT / RIGHT key of the MENU.</li> <li>If the color is not the best with the initial setting value, make fine adjustment of the "No.7 COLOR" unit you get the optimum color.</li> </ol>
SUB TINT adjustment			No.6 TINT	<ol> <li>Receive a broadcast.</li> <li>Select "No.6 TINT" of the PICTURE MODE.</li> <li>Set the initial setting value of the "No.6 TINT" with the LEFT / RIGHT key of the MENU.</li> <li>If the tint is not the best with the initial setting value, make fine adjustment of the "No.6 TINT" unit you get the optimum tint.</li> </ol>

# ADJUSTMENT OF PIP CIRCUIT

	Measuring instrument	Test point	Adjustment part		Description	,
RF.AGC (NOISE) adjustment			NOISE VR (R8123) [AV SELECTOR PWB]	3. Then ad disappea disappea	a broadcast.  NOISE VR so that noise ap just the NOISE VR in the rs from the picture, and red from the picture.  nother channel, and make a	e direction where noise stop it where noise has
PIP WHITE BALANCE adjustment	Signal gen- erator		No.14 G GAIN No.15 B GAIN	2. Select the SERVICH 3. Set the LEFT/RIGHT	a black-and-white signal. (C ne "No.14 G GAIN, No.1 E MODE. corresponding initial so GHT key of the menu. e "No.14 G GAIN, No.15 white.	5 B GAIN" of the PIP
PIP FRAME WIDTH adjustment	Signal generator  PII  (A)	P screen	No. 9 FRAME	<ol> <li>Select th</li> <li>Adjust th</li> </ol>	a black-and-white signal. (Ce "No.9 FRAME" of the PIFe "No.9 FRAME" so that the limit be left to right equal (A = B	P SERVICE MODE. ne width of the PIP screen
PIP DISPLAY POSITION adjustment	Signal gen- erator		No.2 V POSITION No.3 LOWER POS. No.4	<ol> <li>Select th</li> <li>Set the interpretable LEFT/RI</li> <li>Adjust the screen et</li> <li>Adjust the screen et</li> </ol>	a black-and-white signal. (Cine "No.2 V POSITION" of the nitial setting value of the No.3 He "No.2 V POSITION" so the "No.2 V POSITION" so the corresponding modes of the steps as 2~4 above.	ne PIP SERVICE MODE.  2.2 V POSITION" with the hat the position of the PIF as shown.
			H POSITION No.5			
	PIP so	creen		PIP SERVICE MODE NO.		PIP SETTING POSITION Approx. (mm)
	PIP so	creen	No.5 RIGHT POS.	PIP SERVICE MODE		POSITION Approx.
	PIP so	creen	No.5 RIGHT POS.	PIP SERVICE MODE NO.	ltem	POSITION Approx. (mm)
	PIP so	creen	No.5 RIGHT POS.	PIP SERVICE MODE NO.	Item  UPPER POSITION (X1)	Approx. (mm)

Item	Measuring instrument	Test point	Adjustment part	Description
PIP SUB CONTRAST adjustment			No.13 CONTRAST	<ol> <li>Receive a broadcast.</li> <li>Select "No.13 CONTRAST" of the PIP SERVICE MODE.</li> <li>Set the initial setting value of the "No.13 CONTRAST" with the LEFT/RIGHT key of the menu.</li> <li>If the contrast is not the best with the initial setting value, make fine adjustment of the "No.13 CONTRAST" until you get the optimum contrast.</li> </ol>
PIP SUB COLOR adjustment			No.12 COLOR	<ol> <li>Receive a broadcast.</li> <li>Select "No.12 COLOR" of the PIP SERVICE MODE.</li> <li>Set the initial setting value of the "No.12 COLOR" with the LEFT/RIGHT key of the menu.</li> <li>If the color is not the best with the initial setting value, make fine adjustment of the "No.12 COLOR" until you get the optimum color.</li> </ol>
PIP SUB TINT adjustment			No.11 TINT	<ol> <li>Receive a broadcast.</li> <li>Select "No.11 TINT" of the PIP SERVICE MODE.</li> <li>Set the initial setting value of the "No.11 TINT" with the LEFT/RIGHT key of the menu.</li> <li>If the tint is not the best with the initial setting value, make fine adjustment of the "No.11 TINT" until you get the optimum tint.</li> </ol>

### ADJUSTMENT OF MTS CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
MTS INPUT LEVEL check			No.4 IN LEVEL	Select the "No.4 IN LEVEL" of the SOUND MODE.     Verify that the "No.4 IN LEVEL" is set at its initial setting value.
MTS STEREO VCO adjustment	Signal generator Frequency counter	MPX Connector pin RTV [AV SELEC- TOR PWB]	No.5 FH MONITER No.6 STEREO VCO	<ol> <li>Receive a RF signal (nonmodulated sound signal) from the antenna terminal.</li> <li>Select the "No.5 FH MONITER" of SOUND MODE, and change the setting value from 0 to 1.</li> <li>Connect the Frequency Counter to pin 2 of MPX connector.</li> <li>Select the "No.6 STEREO VCO".</li> <li>Set the initial setting value of the "No.6 STEREO VCO" with the LEFT/RIGHT key of the menu.</li> <li>Adjust the "No.6 STEREO VCO" so that the Frequency Counter will display 15.73KHz±0.1KHz.</li> <li>Select the "No.5 FH MONITER" of the SOUND MODE, and reset the setting value from 1 to 0.</li> </ol>

ltem	Measuring instrument	Test point	Adjustment part	Description
MTS SAP VCO adjustment	Signal generator Frequency counter	MPX Connector 4 pin SDA 3 pin GND 2 pin RTV [AV SELEC-TOR PWB]	No.11 5FH MON.	<ol> <li>Receive a RF signal (non modulated sound signal) from the antenna terminal.</li> <li>Connect between pin 4 of MPX connector and GND (Pin 3 of MPX) connector) through 1MΩ Resistor.</li> <li>Select the "No.11 5FH MON." of the SOUND MODE, and reset the setting value from 0 to 1.</li> <li>Connect the Frequency Counter to pin 2 (R.OUT) of MPX connector.</li> <li>Select the "No.12 SAP VCO".</li> <li>Set the initial setting value of "No.12 SAP VCO" with the LEFT/RIGHT key of the menu.</li> <li>Adjust the "No.12 SAP VCO" so that the Frequency Counter will display 78.67KHz±0.5KHz.</li> <li>Select the "No.11 5FH MON." of the SOUND MODE, and reset the setting value from 1 to 0.</li> </ol>
MTS FILTER check			No.8 FILTER	Select the "No.8 FILTER" of the SOUND MODE.     Verify that the "No.8 FILTER" is set at its initial setting value.
MTS SEPARATIO- N adjustment		MPX Connector 1 pin LTV 2 pin RTV [AV SELEC- TOR PWB]		1. Input a stereo L signal (300Hz) from the TV Audio Multiplex Signal Generator to the antenna terminal. 2. Connect an oscilloscope to pin 1 (L OUT) of MPX connector, and display one cycle portion of the 300Hz signal. 3. Change the connection of the oscilloscope to pin 2 (R OUT) of MPX connector, and enlarge the voltage axis. 4. Select the "No.9 LOW SEP." of the SOUND MODE. 5. Set the initial setting value of the "No.9 LOW SEP." with the LEFT/RIGHT key of the menu. 6. Adjust the "No.9 LOW SEP." so that the stroke element of the 300Hz signal will become minimum.
1 cycle	waveform	Minin	alk portion	7. Change the signal to 3kHz, and similarly adjust the "No.10 HI SEP.".

### HOW TO CHECK THE HIGH VOLTAGE HOLD DOWN CIRCUIT

### 1. HIGH VOLTAGE HOLD DOWN CIRCUIT

After repairing the high voltage hold down circuit shown in Fig. 1. This circuit shall be checked to operate correctly.

#### 2. CHECKING OF THE HIGH VOLTAGE HOLD DOWN CIRCUIT

- (1) Turn the POWER SW ON.
- (2) As shown in Fig. 2, set the resistor (between X connector 1 & 3).
- (3) Make sure that the screen picture disappears.
- (4) Temporarily unplug the power cord.
- (5) Remove the resistor( between X connector 1 & 3).
- (6) Again plug the power cord, make sure that the normal picture is displayed on the screen.

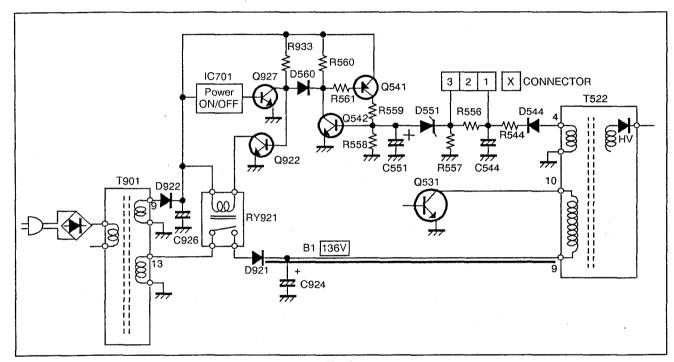


Fig. 1

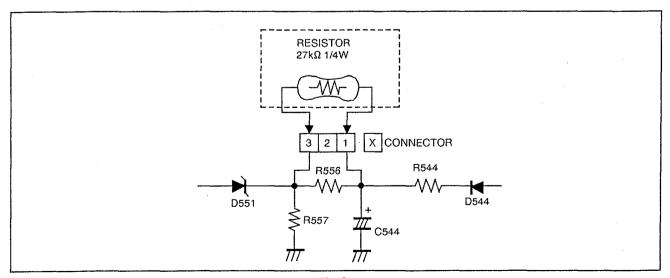


Fig. 2

# **PARTS LIST**

# **CAUTION**

- The parts identified by the  $\triangle$  symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied .
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.
- As a rule, the resistors and capacitors which are indicated as shown in "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" are not shown in the list of the parts on the board.

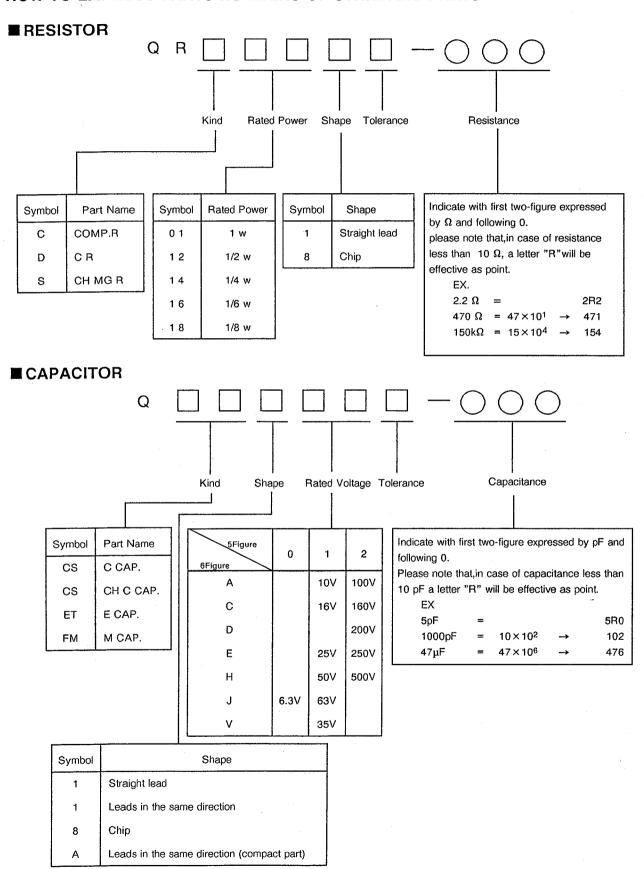
When ordering the service parts, confirm the resistance/rated power, capacitance/rated voltage, and type of the parts, then order by the part No. indicated according to "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS".

### ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

	RESISTORS		CAPACITORS
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	м сар.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MFR	Metal Film Resistor	ММ САР.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
ом в	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

	TOLERANCES								
F	G	J	к	М	N	R	н	z	Р
±1%	±2%	±5%	± 10%	± 20%	±30%	+30%	+50%	+80%	+100%

### **HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS**



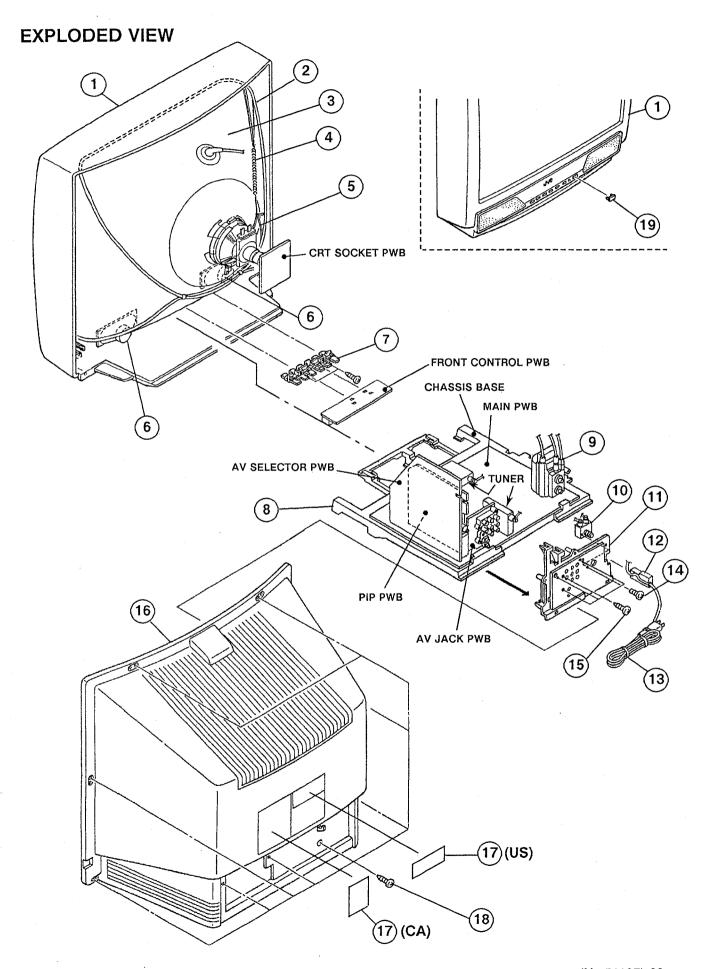
CONTENTS ■ USING P.W. BOARD & REMOTE CO	NTROL UNIT	27
■ EXPLODED VIEW PARTS LIST		28
■ EXPLODED VIEW		29
■ PRINTED WIRING BOARD PARTS L	.IST	
	(SGK-1012A-M2)	30
<ul> <li>CRT SOCKET PW BOARD ASS'Y</li> </ul>	(SGK-3012A-M2)	33
• FRONT CONTROL PW BOARD ASS'Y	(SGK-4011A-M2)	34
<ul> <li>AV SELECTOR PW BOARD ASS'Y</li> </ul>	(SGK-8012A-M2)	34
<ul> <li>AV JACK PW BOARD ASS'Y</li> </ul>	(SGK0J002A-M2)	36
<ul> <li>PIP PW BOARD ASS'Y</li> </ul>	( SGK0P002A-M2 )	36
■ REMOTE CONTROL UNIT PARTS L	IST	37
■ PACKING		38
■ PACKING PARTS LIST		
• O I - Mandal		20

# **USING P.W. BOARD & REMOTE CONTROL UNIT**

P.W.B ASS'Y	AV-27750 (US&CA)
MAIN P.W.B	SGK-1012A-M2
CRT SOCKET P.W.B	SGK-3012A-M2
FRONT CONTROL P.W.B	SGK-4011A-M2
AV SELECTOR P.W.B	SGK-8012A-M2
AV JACK P.W.B	SGK0J002A-M2
PIP P.W.B	SGK0P002A-M2
REMOTE CONTROL UNIT	RM-C742-1C

# **EXPLODED VIEW PARTS LIST**

Local	Description	Part Name	Part No.	⚠ Ref. No.
*		FRONT CABI.ASSY	CM12793-C02-MA	<u> </u>
*	L01	DEGAUSSING COIL	CE41329-00CJ2	<u></u>
*	V01 Inc.DY	PICTURE TUBE(ITC	A68ADT25X01	<ul><li>⚠ 1</li><li>⚠ 2</li><li>⚠ 3</li></ul>
*		BRAIDED ASSY	CHGB0015-0B	4
*		BRAIDED WIRE	CHGB0016-0C	5
*	(×2)SP01,SP02	SPEAKER	CEBSS12D-04KJ2	<b>∆</b> 6
*		PUSH KNOB	CM35776-B01-H	7
*		CHASSIS BASE	CM12689-B01-VA	8
*	T1522	н.v.т.	CJ28333-00AJ1	<b>∆</b> 9
*		ANT SPLITTER	CEGA005-001	10
*		TERMINAL BOARD	CM23036-B01-VA	<b>↑</b> 11
*		POWER CORD CLAMP	CM48140-A03-A	12
*		POWER CORD	QMPD070-200-E2	<b>↑</b> 13
		SCREW	SPSP3008Z	14
*	$(\times 4)$	TAPPING SCREW	SBSB3010Z	15
*	` '	REAR COVER	CM12415-B62-MA	<u>↑</u> 16
*	(US)	RATING LABEL	CM23034-001-A	<b>≙ 17</b>
*	(CA)	RATING LABEL	CM22999-001-A	<u>⊼</u> 17
*	$(\times 9)$	TAPPING SCREW	GBSB4016Z	18
*	` ,	REMOCON WINDOW	CM35983-001-H	19



# PRINTED WIRING BOARD PARTS LIST

MAIN PW BOARD ASS'Y (SGK-1012A-M2)

<b>⚠</b> Symbol No.	Part No.	Part Name	Description	Local
RESIST	OR			
R1001	QRD149J-5R6S	C R	5.6 Ω 1/4W J	*
	ORX029J-R82A	MF R	0.82 Ω 2W J	*
R1423	- · · · · · · · · · · · · · · · · · · ·		1.8kΩ 3W J	*
R1524-25	QRG039J-182A	OM R		*
R1533	QRG039J-103A	OM_R	10kΩ 3W J	*
R1541	QRD129J-150S	C R	15 Ω 1/2W J	
R1542	QRX019J-1R2S	MF R	1.2 Ω 1W J	蛛
R1544	ORD129J-4R7S	CR	4.7 Ω 1/2W J	*
<b>⚠</b> R1556	QRV141F-7501AY	MF R	7.5kΩ 1/4W F	*
A D4557	ODV/1415 2071AV	MF R	2.87kΩ 1/4W F	*
⚠ R1557	QRV141F-2871AY	MF R	2.2 Ω 2W J	*
R1605	QRX029J-2R2		0.01 u F 50V K	*
R1712	NCB21HK-103AY	CHIP CAP.	•	*
R1771	QRG019J-820S	OM R		*
<b>⚠</b> R1901	QRF074K-R47	UNF R	0.47 Ω 7W K	
R1903	QRX029J-R47A	MF R	0.47 Ω 2W J	*
R1904	QRX029J-R39A	MF R	0.39 Ω 2W J	*
R1905	QRG019J-150S	OM R	15 Ω 1W J	*
D1006	0001401-1009	C R	1 Ω 1/4W J	*
R1906	QRD149J-1R0S ORD149J-222S	CR	2.2kΩ 1/4W J	*
R1909	•		1kΩ 1/4W J	*
R1910	QRD149J-102S	C R		
R1911	QRX129J-R68A	MF R	0.68 Ω 1/2W J	*
R1924	QRG019J-331S	OM R	330 Ω 1W J	
R1927	QRD149J-3R3S	C R	3.3 Ω 1/4W J	*
<b>⚠</b> R1998	QRZ0111-275U	C R	2.7M Ω 1/2W	*
CAPACI	тов			
C1006	NCB21HK-103AY	CHIP CAP.	0.01μF 50V K	*
•		CHIP CAP.	0.01 µ F 50V K	*
C1011	NCB21HK-103AY			*
C1102	NCB21HK-103AY	CHIP CAP.	0.01 µ F 50V K	*
C1104-05	NCB21HK-103AY	CHIP CAP.	0.01 µ F 50V K	
C1106	NCT03CH-680AY	CHIP CAP.	68 p F 1600V H	*
C1107	NCB21HK-103AY	CHIP CAP.	0.01μF 50V K	*
C1131	QFV71HJ-154MZ	TF CAP.	0.15μF 50V J	*
C1132	QFN31HK-152ZJ1	M CAP.	1500 p F 50V K	*
61191	NCB21HK-102AY	CHIP CAP.	1000 p F 50V K	*
C1134				*
C1135	NCB21HK-103AY	CHIP CAP.		*
C1162	NCB21HK-103AY	CHIP CAP.	0.01 µ F 50V K	*
C1163	NCT03CH-220AY	CHIP CAP.	22 p F 1600V H	*
C1164	NCT03CH-470AY	CHIP CAP.	47 p F 1600V H	
C1166	NCB21HK-103AY	CHIP CAP.	0.01μF 50V K	*
C1168-70	NCB21HK-103AY	CHIP CAP.	0.01 μ F 50V K	*
C1205	QFV71HJ-104MZ	TF CAP.	0.1 µ F 50V J	*
2422	NOTOBOLL COOKY	CUITD CAD	68 p F 1600V H	*
C1208	NCTO3CH-680AY	CHIP CAP.		*
C1226	NCT03CH-681AY	CHIP CAP.	680 p F 1600V H	
C1228	QFV71HJ-104MZ	TF CAP.	0.1μF 50V J	*
C1301	NCB21HK-103AY	CHIP CAP.	0.01μF 50V K	*
C1302	NCT03CH-100AY	CHIP CAP.	10 p F 1600V H	*
C1303	OFLC1HK-223MZ	M CAP.	0.022 µF 50V K	*
	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	*
C1306 C1402	QEE61CK-225BZ	TAN.CAP.	2.2 µ F 16V K	
01404	*************			
C1403	NCB21HK-102AY	CHIP CAP.	1000 p F 50V K	*
C1421	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	*
C1424	QETC1VM-107Z	E CAP.	100 µ F 35V M	*
	QETC1VM-477Z	E CAP.	470 µ F 35V M	*
C1425		M CAP.	0.056 µ F 100V K	*
C1426	QFLC2AK-563MZ		0.68 µF 50V J	*
C1428	QFV71HJ-684MZ	TF CAP.	* · · · * *	*
C1429	QFV71HJ-224MZ	TF CAP.	0.22 µ F 50V J	*
C1503	NCB21HK-103AY	CHIP CAP.	0.01 µ F 50V K	*
C1523	QETC2CM-105Z	E CAP.	1 µ F 160V M	*
△ C1531	OFZ0117-3001S	MPP CAP.	3000 p F1.4kVH ± 2.5%	*
	QFZ0117-1202S	MPP CAP.	0.012 µ F1.4kVH ± 2.5%	
<b>△</b> C1532			•	*
	UPVISABLE	M (VA)		
↑ C1533 C1534	QFN32DK-124J1 QEHC2EM-225MZ	M CAP. E CAP.	0.12 μ F 200V K 2.2 μ F 250V M	*

⚠ Symbol No.	. Part No.	Part Name	Description	Local
C A P A C ↑ C1535 C1538 C1541 C1542 C1544 C1545 C1546 C1578-79	I T O R QFZ0119-434L QEZ0203-107R QETB2EM-336 QETB1VM-108 QETC1VM-107Z QFLC2AJ-393MZ QFV71HJ-473MZ QEM61HK-475MZ	MPP CAP. E CAP. E CAP. E CAP. E CAP. TF CAP. E CAP.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	** ** **
C1701-02 C1704 C1705 C1709 C1710-11 C1712 C1713 C1714	NCB21HK-103AY NCB21HK-103AY NCT03CH-181AY NCT03CH-221AY NCT03CH-390AY NCT03CH-270AY NCT03CH-150AY NCB21HK-103AY	CHIP CAP.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	* * * * * *
C1716 C1717-18 C1720-21 C1741 C1744 C1772 ⚠ C1901 ⚠ C1902	NCB21HK-103AY NCT03CH-330AY NCB21HK-103AY QFN31HJ-102ZJ1 NCT03CH-681AY NCB21HK-103AY QFZ9040-104N QFZ9040-473N	CHIP CAP. CHIP CAP. CHIP CAP. M CAP. CHIP CAP. CHIP CAP. MF CAP. MM CAP.	0.01 µ F 50V K 33 p F 1600V H 0.01 µ F 50V K 1000 p F 50V J 680 p F 1600V H 0.01 µ F 50V K 0.1 µ FAC250V M 0.047 µ FAC250V M	**
⚠ C1903 ⚠ C1904 ⚠ C1906 ⚠ C1907 ⚠ C1908 ⚠ C1910 C1911 C1917	QFZ9040-104N QCZ9052-102A QCZ9033-102A QCZ9033-102A QCZ9033-102A QEZ0169-477 QCZ0116-152AZ QETC2AM-106Z	MF CAP C CAP. C CAP. C CAP. E CAP. C CAP. E CAP.	0.1 \( \mu\) FAC250V M 1000 \( \mu\) FAC125V 1000 \( \mu\) FAC250V K 1000 \( \mu\) FAC250V K 1000 \( \mu\) FAC250V K 470 \( \mu\) F 200V M 1500 \( \mu\) F 1000V M	* * * * * * * *
C1918 C1921-22 C1924 C1929 C1938	NCB21HK-102AY QCZ0132-152AZ QEZ0203-107R QETC2CM-106Z NCT03CH-471AY QCZ9052-222A	CHIP CAP. C CAP. E CAP. E CAP. CHIP CAP. C CAP.	1000 p F 50V K 1500 p F 500V K 100 p F 160V 10 p F 160V M 470 p F 1600V H 2200 p FAC125V	*** *** *** ***
T R A N S T1131 T1161 T1521 A T1522 A T1901	F O R M E R CELT001-209J3 CELT003-109J3 CE42034-002 CJ28333-00AJ1 CETS021-001J3	C.WAVE TRANSF. S.I.F.TRANSF. H.DRIVE TRANSF. H V TRANSF. SWITCH.TRANSF.		* *
C O I L L1001 L1102 L1103 L1104 L1131 L1161 L1162 L1201	CELP059-101Z CELP041-R22 CELP041-R68 CELP059-680Z CELP059-220Z CELP059-680Z CELP059-220Z CELP059-270Z	PEAKING COIL	100 µ H 0.22 µ H 0.68 µ H 68 µ H 22 µ H 68 µ H 22 µ H 27 µ H	***************************************
⚠ L1531 ⚠ L1532 ⚠ L1591 L1701 L1702 L1771 L1921 L1922	CELL004-001 CELC052-821 CELC901-036J6 CELP059-5R6Z CELP058-100Z CELP059-5R6Z CELC058-820Z CELC058-220Z	LINEARITY COIL CHOKE COIL HEATER CHOKE PEAKING COIL PEAKING COIL CHOKE COIL CHOKE COIL	5.6 µ H 10 µ H 5.6 µ H	* * *
D I O D E D1001 D1221	MTZJ36(A)-T2 MTZJ5.1(B)-T2	ZENER DIODE ZENER DIODE		*

⚠ Symbol No.	Part No.	Part Name	Description	Local
DIODE D1231-34 D1421 D1422 D1511 ⚠ D1531 ⚠ D1532 D1533 D1541	1SS133-T2 1N4003-T2 MTZJ75-T2 MTZJ3.3(A)-T2 RH3G-C1 RU3AM-LFC4 RGP10J(C1)-T3 RH1S-T3	SI.DIODE SI.DIODE ZENER DIODE ZENER DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE		*
D1542 D1544 D1546 D1549 ⚠ D1551 D1560 D1601-03 D1703-04	RGP10J(C1)-T3 1SS81-T2 1SR124-400A-T2 MTZJ9.1(B)-T2 MTZJ7.5S-T2 1SS133-T2 1SS133-T2 1SS133-T2	SI.DIODE SI.DIODE SI.DIODE ZENER DIODE ZENER DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE		* * * * * * *
D1741-42 D1771-73 ⚠ D1901 ⚠ D1902 D1904 D1905 D1907 D1909	1SS133-T2 1SS133-T2 D3SBA60-C1 RGP10J(C1)-T3 RMPG06D-T2 1SR124-400A-T2 1SR124-400A-T2 MTZJ15(A)-T2	SI.DIODE SI.DIODE BRIDGE DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE ZENER DIODE		* * * * *
D1911 D1921 D1922 D1923 D1924 D1926-28 D1931 D1933	1SS133-T2 RU3AM-LFC4 RU3YX-LFC4 RGP10J(C1)-T3 1SR35-100A-T2 1SS133-T2 1SS133-T2 1SS133-T2	SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE SI.DIODE		* * * * *
D1934	RGP10J(C1)-T3	SI.DIODE		*
T R A N S Q1101 Q1131-32 Q1161 Q1203 Q1204-05 Q1231-32 Q1521 ♠ Q1531	I S T O R 2SC5083(L-P)-T 2SC2412K(QR)-X 2SC2412K(QR)-X 2SC2412K(QR)-X 2SA1037K(QR)-X 2SC2412K(QR)-X 2SC2412K(QR)-X 2SC412-C1 2SD2499-LB	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR POWER TRANSISTOR	H.OUT	* * * * *
Q1541 Δ Q1542 Q1601 Q1602 Q1603 Q1604 Q1701 Q1741	2SA933S(QR)-T 2SC2785(JH)-T DTC124EKA-X 2SC2412K(QR)-X DTC124EKA-X 2SA1037K(QR)-X DTC124EKA-X 2SC2412K(QR)-X	SI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR DIGI.TRANSISTOR SI.TRANSISTOR		***
Q1742 Q1743 Q1921 Q1922 Q1923 Q1924 Q1925-28	DTC124EKA-X 2SC2412K(QR)-X 2SC2412K(QR)-X 2SD1383K-X 2SA1020(Y)-T 2SC2412K(QR)-X DTC124EKA-X	DIGI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR		* *
I C IC1001 IC1101 IC1201 △ IC1421 △ IC1601 IC1701	KIA78L05BP-Y KIA7809PI TA1242N LA7832 LA4485 MN1874876J7R3	I.C.(MONO-ANA) I.C.(MONO-ANA) I.C.(MONO-ANA) I.C.(MONO-ANA) I.C.(MONO-ANA) I.C.(MONO-ANA)		**

Δ	Symbol No.	Part No.	Part Name	Description	Local
<u></u>	I C IC1702 IC1703 IC1771 IC1901	AT24C04-27750U MN1280-Q KIA78L05BP-Y STR-S5708	I.C.(EP-ROM) I.C.(DIGI-MOS) I.C.(MONO-ANA) I.C.(HYBRID)	(SERVICE)	*
Δ	OTHERS CF1001 CF1131 CF1161 CF1501 CF1701 F1901 K1421 K1902	FTP47.25MF CE41505-001 SFSH4.5MCB CSB503F30-T2 FCR12.0M2S QMF0007-5R0J1 CE42050-001Z CE41433-001Z	CERAMIC FILTER CERAMIC FILTER CER.MIC FILTER CER.RESONATOR CER.RESONATOR FUSE CORE BEADS CORE	5.0A	*
<u>∧</u> ∧ ∧	K1921 K1922 LF1901 LF1902 PC1901 PC1902 RY1901 RY1921	CE41433-001Z CE42050-001Z CELF008-001J5 CE42335-001J1 TLP621(GB) TLP621(GB) CESK028-001 CESK028-001	BEADS CORE CORE LINE FILTER LINE FILTER I.C.(PH.COUPLER) I.C.(PH.COUPLER) RELAY RELAY		* * * *
<u>A</u>	S1421 SF1101 TH1901 TU1001 VA1901 X1301	QSL6A13-C01 CE42604-201 CEKP007-002 CEEK280-A01 ERZV10V361CS CE41651-001Z ICP-N75-Y	LEVER SWITCH SAW FILTER P.THERMISTOR TUNER VARISTOR CRYSTAL I.C.PROTECT	V.CENTER SW	* **

# CRT SOCKET PW BOARD ASS'Y ( SGK-3012A-M2 )

Δ	Symbol No.	Part No.	Part Name	Descripti	on:		Local
	RESIST R3360-62 R3363-65	O R QRZ0111-152 QRG029J-103	C R OM R	1.5k Ω 10k Ω	1/2W 2W	J	*
$\triangle$	C A P A C I C3354-55 C3356 C3382	T O R NCS21HJ-331AY NCS21HJ-391AY QCZ0121-102A	CER.CAPM CER.CAPM C CAP.	330 p F 330 p F 1000 p F	50V 50V 3kV	J J Z	*
	C O I L L3381	CELP055-101Z	PEAKING COIL	100 µ H			*
	T R A N S I Q3351-53	S T O R 2SC4544-C1	SI.TRANSISTOR				*
Δ	O T H E R S SK3351	CE42535-001J1	C.R.T.SOCKET				*

# FRONT CONTROL PW BOARD ASS'Y (SGK-4011A-M2)

Δ	Symbol No.	Part No.	Part Name	Description .	Local
	DIODE D4701	GL2PR6	L.E.D.(RED)		*
	TRANSI Q4701-02	S T O R DTA124EKA-X	DIGI.TRANSISTOR		*
	I C IC4841	HC-337MN	IFR DETECT UNIT		*
	OTHERS S4702 S4703 S4704 S4705 S4706 S4707	CM46978-A01-H QSP1A11-C19Z QSP1A11-C19Z QSP1A11-C19Z QSP1A11-C19Z QSP1A11-C19Z QSP1A11-C19Z	L.E.D.HOLDER PUSH SWITCH	MENU CH - CH + VOL - VOL + POWER	* * * * *

# AV SELECTOR PW BOARD ASS'Y ( SGK-8012A-M2 )

⚠	Symbol No.	Part No.	Part Name	Descripti	on		Local
_	V A R I A B R8123	LE RESIST QVPA603-473AZ	O R V R (NOISE VR)	47k Ω	В		
	RESIST	O R	C R	5.6 Ω	1/4W	J	*
	R8005	QRD149J-5R6S NRVA02D-2200NY	CHIP MF R	220 Ω		F	
	R8109 R8607	NRVA02D-2200N1 NRVA02D-1502NY	MF R		1/10W	F	*
	R8609	NRVA02D-1501NY	MF R	1.5kΩ		F	*
	CAPACI	T O-R				,	
	C8005	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C8101-03	NCB21HK-103AY	CHIP CAP.	0.01 μ F	50V	K	*
	C8104	NCB21HK-222AY	CHIP CAP.	2200 p F	50V	K	*
	C8106	NCB21HK-222AY	CHIP CAP.	2200 p F	50V	K	*
	C8107	NCB21HK-103AY	CHIP CAP.	0.01 µ F	50V	Ķ	*
	C8108	NCS21HJ-101AY	CHIP CAP.	100 p F	50V	J	*
	C8109-10	QFV71HJ-224MZ	TF CAP.	0.22 μ F	50V	J	* *
	C8112	NCB21HK-222AY	CHIP CAP.	2200 p F	50V	K	*
	C8115	NCB21HK-103AY	CHIP CAP.	0.01 µ F	50V	K	*
	C8118	OFV71HJ-474MZ	TF CAP.	0.47 μ F	50V	J	*
	C8161	OFLC1HK-104MZ	M CAP.	0.1 μ F	50V	K	*
	C8205	NCT03CH-330AY	CHIP CAP.	33 p F	1600V	H	*
	C8302	OFLC1HK-103MZ	M CAP.	0.01 μ F	50V	K	*
	C8303	NCT03CH-680AY	CHIP CAP.	68 p F	1600V	Н	*
	C8304	NCT03CH-271AY	CHIP CAP.	270 p F	1600V	Н	*
	C8305	NCB21HK-103AY	CHIP CAP.	0.01 μ F	50V	K	*
	C8316	NCB21HK-103AY	CHIP CAP.	0.01 μ F	50V	K	*
	C8317	NCT03CH-680AY	CHIP CAP.	68 p F	1600V	H	*
	C8602	QFLC1HK-103MZ	M CAP.	0.01 μ F	50V	K	*
	C8604	QFV71HJ-104MZ	TF CAP.	0.1 μ F	50V	J	*
	C8605	QEN61HM-475Z	BP E CAP.	4.7 µ F	507	М	*
	C8606	QEN61HM-105Z	BP E CAP.	1 μ F	50V	M	*
	C8608	QFLC1HK-473MZ	M CAP.	0.047 μ F	50V	K	*
	C8610-11	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
	C8613	QEE61CK-335BZ	TAN.CAP.	3.3 µ F	16V	К	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C A P A C I C8614 C8619 C8621 C8622 C8624 C8625 C8661-62 C8829	T O R QEE61CK-106BZ QFLC1HK-273MZ QFN31HK-222ZJ1 QFV71HJ-104MZ QFN31HK-222ZJ1 QFV71HJ-104MZ QFN61HM-105Z QEN61HM-106Z	TAN.CAP. M CAP. M CAP. TF CAP. M CAP. TF CAP. BP E CAP. BP E CAP.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	*
C8832 C8841 C8842 C8846	QFLC1HK-103MZ QETC1CM-476Z QFLC1HK-103MZ QFLC1HK-103MZ	M CAP. E CAP. M CAP. M CAP.	0.01 μ F 50V K 47 μ F 16V M 0.01 μ F 50V K 0.01 μ F 50V K	* *
C O I L L8003 L8101 L8103 L8104 L8106 L8202 L8301 L8801-02	CELP059-150Z CELP041-R22 CE42452-003 CELP055-220Z CELP059-5R6Z CELP059-220Z CELP059-150Z CELP059-5R6Z	PEAKING COIL PEAKING COIL COIL PEAKING COIL PEAKING COIL PEAKING COIL PEAKING COIL PEAKING COIL PEAKING COIL	15 µ H 0.22 µ H 22 µ H 5.6 µ H 22 µ H 15 µ H 5.6 µ H	* * * * * *
D I O D E D8311-13 D8693-94 D8701-03 D8811-22	1SS133-T2 MTZJ9.1(C)-T2 MTZJ5.6(B)-T2 MTZJ9.1(C)-T2	SI.DIODE ZENER DIODE ZENER DIODE ZENER DIODE		* * *
TRANS 1 Q8101 Q8102 Q8202 Q8203 Q8204 Q8301-03 Q8305 Q8671-72	STOR 2SC5083(L-P)-T 2SA1037K(QR)-X 2SC2412K(QR)-X 2SA1037K(QR)-X 2SC2412K(QR)-X 2SC2412K(QR)-X 2SC2412K(QR)-X DTC124EKA-X	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR		* * * * * * * *
Q8683-86 Q8801-02 Q8803 Q8804-07 Q8851-53	2SC2412K(QR)-X 2SC2412K(QR)-X 2SA1037K(QR)-X 2SC2412K(QR)-X DTC124EKA-X	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR DIGI.TRANSISTOR		* * *
I C IC8001 IC8101 IC8601 IC8661 IC8671 IC8801-02 IC8803	KIA7805PI LA7583 UPC1851CU-02 BA15218N TC4066BP BA7644AN TC4066BP	I.C.(MONO-ANA) I.C.(MONO-ANA) I.C.(MONO-ANA) I.C.(MONO-ANA) I.C.(DIGI-MOS) OP AMP IC I.C.(DIGI-MOS)		**
OTHERS CF8101 CF8102 CF8103 CM8201 CN8004 DL8201 J8801 SF8101	FTP47.25MF FCR5.71M2SF3 CE41505-001 CE42599-001 CHA401N-25P-J CE42464-001 QMCC004-C01 CE42589-201	CERAMIC FILTER CER.RESONATOR CERAMIC FILTER COMB FILTER MOD HOF CONNECTOR BPF&DL MODULE MINI DIN JACK SAW FILTER		* * * *

# AV JACK PW BOARD ASS'Y ( SGK0J002A-M2 )

Description	Part Name	Part No.	⚠ Symbol No.
	HQF CONNECTOR PIN JACK PIN JACK MINI JACK	CHA401N-25R-J CEMN073-001 CEMN090-003 AX49607-020	OTHERS CN0004 J0802-03 J0804 J0805-06

# PIP PW BOARD ASS'Y ( SGK0P002A-M2 )

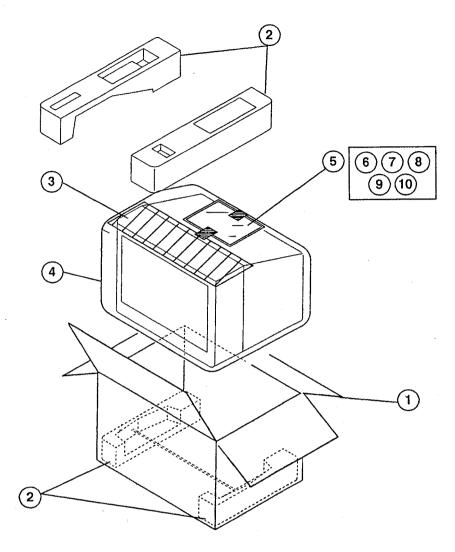
Δ	Symbol No.	Part No.	Part Name	Description	Local
	RESIST R0161 R0401	O R QRG019J-390S QRD149J-330S	OM R C R	39 Ω 1W 33 Ω 1/4W	J *
	CAPACI	TOR.			
	C0101	OEN61CM-106Z	BP E CAP.	10 μ F 16V	M *
	C0102	NCT03CH-150AY	CHIP CAP.	15 p F 1600V	н *
	C0103	NCT03CH-101AY	CHIP CAP.	100 p F 1600V	H . *
	C0104	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V	K *
	C0110	NCT03CH-561AY	CHIP CAP.	560 p F 1600V	н *
	C0122	NCB21HK-103AY	CHIP CAP.	0.01 μ F 50V	K *
	C0123	NCB21HK-152AY	CHIP CAP.	1500 p F 50V	K *
	C0125	NCF21HZ-103AY	CHIP C CAP.	0.01μF 50V	Z *
	C0126	QFV71HJ-104MZ	TF CAP.	0.1 µ F 50V	J *
	C0127	NCT03CH-220AY	CHIP CAP.	22 p F 1600V	H *
	C0142	NCT03CH-150AY	CHIP CAP.	15 p F 1600V	H *
	C0143	NCF21HZ-103AY	CHIP C CAP.	0.01 μ F 50V	Z *
	C0145	NCB21HK-103AY	CHIP CAP.	0.01 μ F 50V	N.
	C0149	NCTO3CH-101AY	CHIP CAP.	100 p F 1600V	11
	C0150	NCTO3CH-470AY	CHIP CAP.	47 p F 1600V	H *
	C0162	NCF21HZ-103AY	CHIP C CAP.	0.01 μ F 50V	2
	C0164	NCF21HZ-103AY	CHIP C CAP.	0.01 µ F 50V	Z *
	C0166	NCF21HZ-103AY	CHIP C CAP.	0.01μF 50V	Z *
	C0171-89	NCF21HZ-103AY	CHIP C CAP.	0.01 μ F 50V	Z *
	C0202	NCF21HZ-103AY	CHIP C CAP.	0.01 μ F 50V	Z *
	C0204-05	NCF21HZ-103AY	CHIP C CAP.	0.01 μ F 50V	L
	C0210-11	QEN61HM-475Z	BP E CAP.	4.7 µ F 50V	9*1
	C0213	NCB21HK-103AY	CHIP CAP.	0.01 µ F 50V	^
	C0215	NCB21HK~103AY	CHIP CAP.	0.01μF 50V	. K . *
	C0216	NCT03CH-102AY	CHIP CAP.	1000 p F 1600V	н *
	C0222-25	NCT03CH-470AY	CHIP CAP.	47 p F 1600V	н *
	C0227	NCF21HZ-103AY	CHIP C CAP.	0.01μF 50V	Z *
	C0241-51	NCT03CH-101AY	CHIP CAP.	100 p F 1600V	н *
	C0252-60	NCT03CH-471AY	CHIP CAP.	470 p F 1600V	H *
	C0261-62	NCT03CH-681AY	CHIP CAP.	680 p F 1600V	11
	C0263	NCT03CH-101AY	CHIP CAP.	100 p F 1600V	11
	C0270-78	NCF21HZ-103AY	CHIP C CAP.	0.01μF 50V	Z *
	C0304	QEN61HM-475Z	BP E CAP.	4.7 μ F 50V	M *
	C0310	NCF21HZ-103AY	CHIP C CAP.	0.01 μ F 50V	Z *
	C0331	NCF21HZ-103AY	CHIP C CAP.	0.01 μ F 50V	Z *
	COIL				
	L0101	CELP059-100Z	PEAKING COIL	10 μ Η	*
	L0103	CELP059-150Z	PEAKING COIL	15 μ H	*
	L0106	CELP059-820Z	PEAKING COIL	82 μ H	*
	L0107	CELP059-150Z	PEAKING COIL	15 μ H	

⚠ Symbol No.	Part No.	Part Name	Description	Local
D I O D E D0201 D0403	1SS133-T2 1SS133-T2	SI.DIODE SI.DIODE		*
T R A N S 1 Q0101-05 Q0106 Q0201 Q0301-09 Q0402 Q0403-09	S T O R 2SC2412K(QR)-X 2SA1037K(QR)-X 2SA1037K(QR)-X 2SC2412K(QR)-X 2SA1037K(QR)-X 2SC2412K(QR)-X	SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR SI.TRANSISTOR		* * * *
I C IC0101 IC0102 IC0103 IC0201 IC0202 IC0301 IC0401	LA7403 KIA7809PI KIA7805PI LC74411 MN1381-Q-Y BA7655AF-X AN5860	I C I.C.(MONO-ANA) I.C.(MONO-ANA) I C I.C.(MONO-ANA) I.C.(MONO-ANA) I.C.(MONO-ANA)		*
OTHER: X0101 X0102	S CSB503F30-T2 CE41651-001Z	CER.RESONATOR CRYSTAL		*

# REMOTE CONTROL UNIT PARTS LIST (RM-C742-1C)

⚠ Ref.No.	Part No.	Part Name	Description	Local
	2AA015250	BATTERY COVER		*

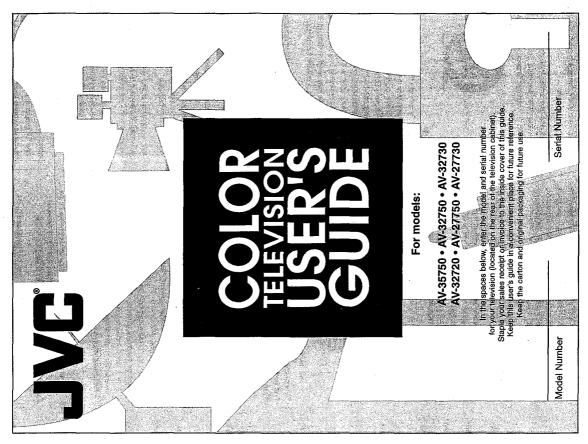
### **PACKING**



### PACKING PARTS LIST

<u> </u>	Ref.No.	Part No.	Part Name	Description	Local
ΓΑn	nerica mo	ode/I			
£	1	CP11499-A02-A	PACKING CASE		*
	2	CP11536-A0D-A	CUSHION ASSY	4pcs in 1set	*
	3	CP30055-001-A	TOP COVER		*
	4	CP30056-002-A	POLY BAG		*
	5	QPGA025-03505A	POLY BAG		*
	6	RM-C742-1C	REMOCON UNIT		*
Δ	7	CQ40198-001-A	INST BOOK	(ENGLISH)	*
	8	BT-51006-1Q	REGI.CARD		*
[Ca	nada mo	dell			
7	1	CP11499-A02-A	PACKING CASE		*
	2	CP11536-A0D-A	CUSHION ASSY	4pcs in 1set	*
	3	CP30055-001-A	TOP COVER		*
	4	CP30056-002-A	POLY BAG		*
	5	QPGA025-03505A	POLY BAG		*
	6	RM-C742-1C	REMOCON UNIT		*
$\triangle$	7	CQ40198-001-A	INST BOOK	(ENGLISH)	*
Δ	7	CQ40199-001-A	INST BOOK	(FRENCH)	*
	9	BT-52002-10	WARRANTY CARD		*
	10	BT-20071B-0	SVC CENTER LIST		*

### OPERATING INSTRUCTIONS (AV-35750 · AV-32750 · AV-32730) AV-27730)



CQ40198-001-A 0596-TN-JII-JIM





JVC COMPANY OF AMERICA A Division of U.S. JVC CORP. 41 Slater Drive

Elmwood Park, New Jersey 07407

# **IMPORTANT SAFETY PRECAUTIONS**



CAUTION: To REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER (OR BACK).

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

No user serviceable parts inside.



cient magnitude to constitute a risk of electric shock to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of suffi-The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user



The exclamation point within an equilateral triangle important operating and maintenance (servicing) is intended to alert the user to the presence of instructions in the literature accompanying the

HAZARDS, DO NOT EXPOSE THIS TV SET TO RAIN OR MOISTURE TO PREVENT FIRE OR SHOCK WARNING:

CAUTION:

RULES REGARDING THE USE OF TO INSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING THIS UNIT.

- 1. Operate only from the power source specified on
- 3. Avoid Improper installation and never position the unit where good ventilation is unattain-2. Avoid damaging the AC plug and power cord.
- Do not allow objects or liquid into the cabinet
- 5. In the event of trouble, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

Changes or modifications not approved by JVC could void the warranty

- \* When you don't use this TV set for a long period of time, be sure to disconnect both the power plug from the AC outlet and antenna for your
- To prevent electric shock do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

# MPORTANT SAFEGUARDS

# Please read and retain for your safety.

guards incorporated in this TV set, observe the following basic personal safety. But improper use can result in potential elec-Electrical energy can perform many useful functions. This TV set has been engineered and manufactured to assure your trical shock or fire hazards. In order not to defeat the saferules for its installation, use and servicing.

And also follow all warnings and instructions marked on your TV set.

### INSTALLATION

1 Your TV set is equipped with a polarized AC line plug (one blade of the plug is wider than the other).

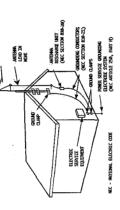
### (POLARIZED-TYPE)

This safety feature allows the plug to fit into the power outlet only one way. Should you be unable to insert the plug Should it still fail to fit, contact your electrician. fully into the outlet, try reversing the plug.

- information. If you are not sure of the type of power supply 2 Operate the TV set only from a power source as indicated on the TV set or refer to the operating instructions for this to your home, consult your TV set dealer or local power company. For battery operation, refer to the operating
- 3 Overloaded AC outlets and extension cords are dangerous, may result in a shock or fire hazard. Call your service techand so are frayed power cords and broken plugs. They nician for replacement.
- Do not allow anything to rest on or roll over the power cord, and do not place the TV set where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.
- 5 Do not use this TV set near water --- for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near swimming pool, etc.

- against voltage surges and built-up static charges. Section 810 of proper grounding of the mast and supporting structure, grounding the National Electrical Code provides information with respect to of the lead-in wire to an antenna discharge unit, size of groundantenna system is grounded so as to provide some protection ing conductors, location of antenna discharge unit, connection 6 If an outside antenna is connected to the TV set, be sure the requirements for the grounding electrode.
- 7 An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power cirshould be taken to keep from touching such power lines or When installing an outside antenna system, extreme care cuits, or where it can fall into such power lines or circuits. circuits as contact with them might be fatal.

## EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE



8 TV sets are provided with ventilation openings in the cabinet to allow heat generated during operation to be released.

- --- Never block the bottom ventilation slots of a portable TV set by placing it on a bed, sofa, rug, etc.
- Never place a TV set in a "built-in" enclosure unless proper ventilation is provided.
- Never place the TV set near or over a radiator or heat register. — Never cover the openings with a cloth or other material.
- Do not place a TV set on a sloping shelf unless properly secured. To avoid personal injury:
- Use only a cart or stand recommended by the TV set — Do not try to roll a cart with small casters across threshmanufacturer.
  - Wall or shelf mounting should follow the manufacturer's olds or deep pile carpets.
- instructions, and should use a mounting kit approved by

- 10 Caution children about dropping or pushing objects into the TV set through cabinet openings. Some internal parts carry hazardous voltages and contact can result in a fire or electrical shock.
- 11 Unplug the TV set from the wall outlet before cleaning. Do not use liquid or an aerosol cleaner.
- 12 Never add accessories to a TV set that has not been designed for this purpose. Such additions may result in a hazard.

- when the TV set is to be left unattended for an extended period of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to product due to lightning storms 13 For added protection of the TV set during a lightning storm or or power line surges.
- Quick stops, excessive force, and uneven surfaces may cause 14 ATV set and cart combination should be moved with care. the TV set and cart combination to overturn.



- 15 Unplug this TV set from the wall outlet and refer servicing to qual-A. When the power cord or plug is damaged or frayed. ified service personnel under the following conditions:
- B. If liquid has been spilled into the TV set.
- D. If the TV set does not operate normally by following the C. If the TV set has been exposed to rain or water.
- covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV set operating instructions. Adjust only those controls that are
- F. When the TV set exhibits a distinct change in perfor-E. If the TV set has been dropped or damaged in any way.
  - mance this indicates a need for service.
- other hazards. Refer all servicing to qualified service personnel. 16 Do not attempt to service this TV set yourself as opening or removing covers may expose you to dangerous voltage or
- nician verify in writing that the replacement parts he uses have 17 When replacement parts are required, have the service techmanufacturer's specified replacement parts can prevent fire, the same safety characteristics as the original parts. Use of
- please ask the service technician to perform the safety check 18 Upon completion of any service or repairs to this TV-set, described in the manufacturer's service literature.
- 19 When a TV set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the TV set.
- 20 Note to CATV system installer.
- This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as

### S Z ш Z O O ш 0 ш <u>П</u> **∀**

									_
	ų,	T()	9	_	_	ω	ω		Ç
	•		•	•	•		•		•
•	•		•	•	•	•	•		٠
		•	•		•	•	•		•
•	•	•	•	쁘	•	•	•		•
		•	•	℩	•		٠		•
	•	•	•	∞	•	8	. •		•
	٠	•		0	•	÷	ā		•
	٠	٠	•	Ð.	•	ဂ္က	≝		٠
1	•	•	•	0	•	õ	ם		•
	•	S	•	$\overline{c}$	•	ജ	Ε	¥	٠
	•	Ë	•	Ť	٠.	ŏ	⋖	.⊑	•
	•	ਲ	•	- 1	ᅙ	⋖	7		•
	•	ਰ	•	S	핃	õ	2	⋾	•
	•	<u>.a</u>	•	7	õ	용	퓺	늗	
	•		•	÷	2	₹	₹	등.	22
	•	~	S	8	둤	5	úì.	٠ŏ٠	둤
	•	~	Ξ	č	Õ	쐊	_	Ξ.	ž.
≌.	•	ੁਕ	≆	=	~	=	ਲ	7	ō
	:	ᇿ	ပ္က	്	õ		Ô	~	윤
=1	٠	≒	2	$\simeq$	¥	ഗ	×	⋍	≒
<b>  </b>	•	ĕ	፸	ĕ	Ö	Ō	g	Ď,	Υ.
<u></u>	*	Œ	8	Ž.	÷	ı	≐	.늘`	_
<b>#</b>	≝	ంగ	_	>	ਨੂ	ਨੂ	ਨੂ	তু.	뿆
<b></b>	쏬	<u>-</u>	Φ	0	9	2	8	₽.	풊
<b>=</b>	ŏ	Ξ	亙	ਚ	፰	⋷	☲	☲	ă
CONNECTIONS	Checklist	Front & Rear Panel Diagrams	Cable Connections	Audio Video Connections — Stereo & PIP	Connecting to a Camcorder	Connecting S-VHS Video Accessories.	Connecting to an External Amplifier	Connecting to AV Compu Link	Capable Components
	O	ш.	U	₹	O	O	O	، ب	_

	ı	=	-	-	-	<del></del>	÷	Ť
			•	•	•			
			•		•	•		
		•	•	•	•			
		٠.	•	•	•			
			٠			•	-	
			•	•	•	•		
			•	•	٠	•	•	
			٠	٠	٠			
			•	•	•			
	•		•	•	•	•		
	•		•	•	•			
		•	•	•	•			
		•	. •	•	٠		•	
			•	•	•	g	•	
ш	ı	•	•	٠	S	.⊆	•	
		٠	•	•	a	Ξ	٠	
Œ		S	•	<u>e</u>	⊆	Ξ		
		70	٠	Ξ	눖	ਲ		
5		₽	٠	₽	ػ	5	Ø	
ري		ᅕ		9	O	9	<u>o</u>	U
حے		ŏ		1	~	۵	8	9
2	f	4		5	Ĕ	m	ŏ	č
=		*	<u>_</u>	₽	5	₩		C
140		2	9	ङ	Ξ	2	ح	ď
ΘI		듄	≶	委	9	듄	₽	7
<b>GETTING STARTED</b>		Remote Controls.	Power	Adjusting Volume.	Changing Channels .	Remote Programming	CATV Codes	VCB Codes
	_			•	_		_	_

0 7

F	Ξ	72	12	13	
	•				
•					
	•		-		
•	•				
•	٠				
٠	٠				
	•			•	
	•	ත			
•	S	.⊆			
	ā	Ξ		٠	
Ð	⊆	⋷			
Ξ	듄	ਲ			
_	تخ	ਲੋ	w		
9	O	Ō	<u>&amp;</u>	Ś	
_	~	۵	8	유	
5	ĕ	•	റ	ŏ	
₽	.₽	粪	_	Ō	
छ	Ξ	2	ح	œ.	
픚	9	듄	₽	ᇙ	
ĕ	$\overline{c}$	ď	Ċ	ĭ	
•	_		_	-	
	Adjusting Volume				

MENU FUNCTIONS

Using the Menu System 14	Auto Tuner Setup 15	Channel Summary 15	mer Mode 16	Auto Demo 16	SETTINGS	7mt
Using the Menu Sys INITIAL SETUP	Auto Tuner	Channel Sur	Tuner Mode.	Auto Demo	PICTURE SETTINGS	Tint

0		17	17	1	17	17	17	17		48	9	18	18	18
							٠						~:	•
•				•	•	•	-	•					ā	•
٠		٠	•		•			•			٠		3	
٠			•		•	•				-	•		õ	•
•		•	•		•		•			•			MTS (Multi-Channel Stereo Sound).	•
٠			٠	•			•	•		•	٠		ွ	٠
•		•	•	•	•	•	•	•					ā	•
•		•	•		٠	•	•	•		•			æ	•
•		•	•	•	٠	٠	•	•		•		•	S	•
•		•	•	٠	•	•	•	•					ē	•
•		٠.	•	•	•	٠	•						2	•
٠		•	•	٠	٠	•	•	्ध					œ.	•
٠	ŝ	•	٠	•	•	•	٠	Set Video Status				•	ž	ø
٠	Ö	•	•	٠	٠	٠		**					Ò	Sound Advice
5	ž	•	•	٠	•	•	Ð	رن					=	죾
	$\equiv$	•	•	•	•		Noise Mute	ွ	7	- 1		Balance	3	Ť
۲	$\vdash$		٠	a,	•	•	~	ŏ	뽁	•		8	≥	_
	Щ	٠	÷	Picture	Bright	Detail	Ø	5	≒	Bass.	Treble.	Š	$\simeq$	2
3	တ	≒	Š	₹	g	70	.છ	٠.	Q	S	쓩	ā	22	2
ξ	ш	Tint	Color	∺	줐	۳	9	'n	⋖	3	ح	æ	7	ß
١.	Œ	-	_		ч	4	Ξ.	Ų,	Ω		_	ч	_	٠,
	PICTURE SETTINGS								SOUND ADJUST					
	环								⊋					
	≅								Ö					
	0								S					

	5	9	8	20	8	8	8
		•	•	•		•	•
	•	٠	٠	•	•		
	•	٠	٠		•	•	•
	•	•			٠		•
	•	•	•		•		
	•				•		٠
	•			٠			٠
	٠	•	•		•	•	•
	٠	٠	٠			٠	٠
	•		•		•		•
	•		•			•	٠
	٠	•	•			٠.	•
		٠	•			•	~
GENERAL ITEMS	Set Clock	On/Off Timer .	Set Lock Code	TV Speaker .	Audio Out	Language	Closed Caption

	_		_	_	_	<u> </u>	^1	01	01	~	m	m	m	m	~	m
ò	V	ď	2	'n	Ñ	22	$^{8}$	ŭ	ŭ	ĸ	ŭ	Ň	လ	8	လ	ત
													•			
	•	•					٠			٠	•		•			•
	•					•	•		•			•		•	•	
	٠	•	٠	•			•	. •	•		•	٠	•	•	•	٠
	•	•	•			٠	-		٠	•	•	•	•			٠
	٠	•	•		٠	•	٠	•	٠	•	•	•	•	•	•	٠
	•	•		•	•	٠	•	•	•	•	•	٠	•	•	•	•
	•	•	•		•	•	٠	•	٠	•		٠	٠	٠	٠	•
	•	•	•	•	٠	•	•	•	٠	•	•	•	•	•	•	ন
	•	•	•	•	•	•	•		•		•	•	•	•	•	ŭ
	•	•	•	٠	•	٠	•	٠	•	•	•	•	•	٠	•	Buttons (10 Key Pad)
	٠	•	•	•	•	•	•	•	•	•	•	•	•	•	٠	>
	•	•	•	•	•	•	•	٠	•	•	٠	•	•	٠	٠	9
	٠	•	•	•	•	•		•	•	•	•	•	•	•	٠	
	•	•		٠	•	٠	•	•	•	•	•	•	•	•	•	2
	٠	•	•	•	•	•		•	•	•	•	•	•	•	٠	۰
	٠	•	•	•	•	•	_:	•	•	졏	••	•	•	•	•	2
	٠	•	•	•	•	٠	6		•	Ξ	•	•	•			ō
	٠	Α,	•	•	•		妄	প্ৰ	Ŀ	ō			•		- :	ŧ
	٠	₩	•	•	•		巌	Status	Timer.	Surround	·		•		- :	ಹ
	٠	ů.	•		•	•	Õ	渋	,⊑	ซ			õ		,	
	•	ē	o	Φ	•	≥	0	0)	<u>-</u>				쁑		Ξ	ō
	•	⊑	ည	Ķ	ø	굦	ĕ	8	å	ē	+	~	₹	ø	ξ	윤
0	L	ᄅ	Source.	ĕ	ે	꺙	Closed Caption	꽁	9	Hyper	100 1	눆	<b>rV/Video</b>	Ħ	₩	Number
ã	_	2-Tuner PIP	ഗ്	Freeze	Move	Display	$\overline{c}$	Video	Sleep 7	£	2	VCR	$\subseteq$	Mute	Return+	ž
_	_	- 4			_		_					-		_		_

APPENDICES
Limited Warranty24
Authorized Service Centers
Troubleshooting26
Specifications

### ഗ N 0 - 1 ပ ш Z z o ပ



# **CONNECTIONS CHECKLIST**

# READ ME BEFORE CONNECTIONS

A/V input plug

Refer to the connection instructions in the user guide for each component you plan to connect (they will provide more information about their products)
---

# 2) Most A/V input jacks and plugs are color coded:

Yellow plugs are Video connections

RF Connectors

Red plugs are for Right Audio connections

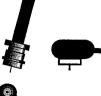
**BUTTON FUNCTIONS** 

White plugs are Left Audio (Mono) connections

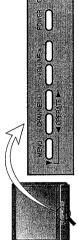
If you have many accessories to connect, make sure each connection is correct by checking to see that it works 3) Perform one hookup at a time.

4) Unplug the power cord between each connection. properly before attempting the next connection.

read these instructions and still do not fully understand the connections process, seek assistance. 5) Each jack on the back of the TV is labeled. If you

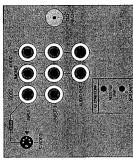


# FRONT AND REAR PANEL DIAGRAMS



There is a common front panel for all slightly depending on model number. \* Placement of jacks may vary models in this user's guide.

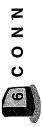
O



Á

REAR PANEL DIAGRAM AV-35750 • AV-32750





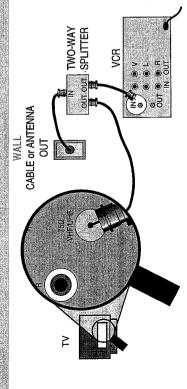
S Z

0110

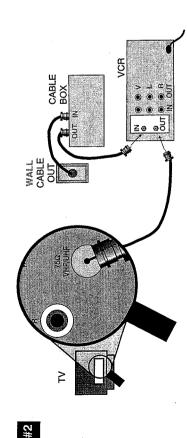
ш

### CABLE CONNECTIONS

There are two basic types of antenna or cable hookups. If you have an antenna, or have a cable TV system that does not require you to use a cable box to tune channels, use diagram #1. If you have a cable system that requires you to use a cable box to access any or all channels, use diagram #2.



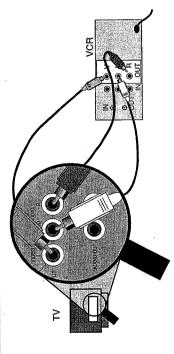
- 1) Cable or antenna wire *out* from wall *in* to splitter RF input.
  2) *Out* from Splitter output *in* to VCR RF input.
  3) *Out* from Splitter output *in* to TV VHF/UHF.



- Cable Wire out from wall in to cable box input.
   Out from cable box in to VCR RF input.
   Out from VCR RF output in to TV VHF/UHF input.
- C Refer to the VCR and/or cable box instructions regarding their unit's RF output.

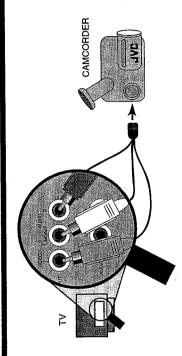
# AUDIO/VIDEO CONNECTIONS — STEREO & PIP

To get stereo sound from a ht-fistereo VCR you must connect it to the TV using Audio/Video cables.



- 1) Yellow video cable out from VCR in to TV Video input jack.
- 2) White audio cable out from VCR Left in to TV Left Audio input jack.
- 3) Red audio cable out from VCR Right in to TV Right Audio input jack.
- ☐ If your VCR is mono it has only one audio out jack, connect it to TV L/Mono input.
  - □ Refer to your VCR's instructions.

# CONNECTING TO A CAMCORDER



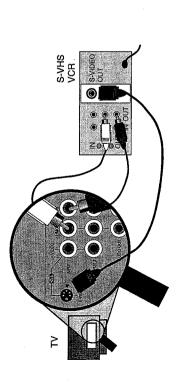
Connect a camcorder to your TV.

- 1) White audio cable out from camcorder in to TV Left Audio input jack.
  - 2) Yellow video cable out from camcorder in to TV Video input jack.
- 3) if you have a stereo model camcorder, Red audio cable out from camcorder in to TV right audio input jack.
- □ Refer to the camcorder's instructions.



### S CONNECTION

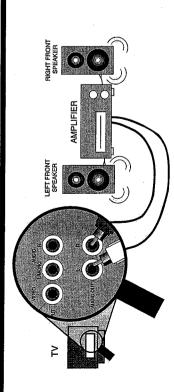
# CONNECTING S-VHS VIDEO ACCESSORIES (VCR OR CAMCORDER)



Keeping the audio connections the same as for a non-S-VHS VCR or camcorder (page 7), use the special S-VHS cable that came with the VCR or Camcorder. Illustration is of S-VHS VCR hookup.

- 1) S-VHS Plug out from VCR in to TV's S-Video input.
  - ☐ Refer to your VCR or camcorder instructions.

# **CONNECTING TO EXTERNAL AMPLIFIER**



Set the TV Speaker to OFF (page 20), switch the audio output to VARI (page 20), and adjust the sound with the TV remote's Volume +/+ button (page 11.)

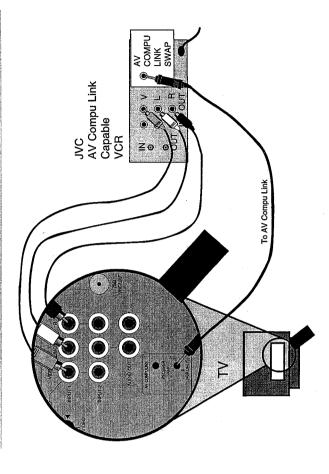
- 1) White audio cable out from TV Left Audio output jack in to Amplifier [Left] input.
- 2) Red audio cable out from TV Right Audio output jack in to Amplifier [Right] input.

# □ Refer to the amplifier's instructions.

### CTIONS CONNE

# CONNECTING TO JVC AV COMPU LINK CAPABLE COMPONENTS

AV Compu Link makes playing video tape totally automatic. Simply insert a pre-recorded tape\* into the /CR, and the VCR automatically turns on and starts playing. At the same time, the VCR sends an AV Computink signal to the television telling it to turn on and switch to the correct video input.



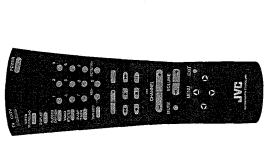
### NOTES:

- 1) The AV Compu Link cable has a Male 3.5 mm (mono) mini plug on each end.
- 2) if your JVC brand VCR has A Code/B Code Remote Control Switching (see VCR instructions), using VCR  $\underline{A}$  Code will switch the TV to Video Input 1. Using  $\underline{B}$  Code will switch the TV to Video Input 2.
- 3) To connect a JVC HiFi receiver or amplifier for a completely automated home theater, see the HiFi receiver's instructions for detailed hookup diagrams.
- \* In order for AV Compu Link to work, the recording tabs must be removed from the VHS tape.

### Ш $\alpha$ 4 ഗ G **Vートー** 田



### REMOTE CONTROLS



CD (C)

8

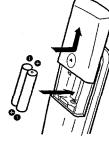
The state of the s

RM-C743 AV-32720









### 0 0 C) (2) (3) , © .co. O Ken • 0 1 3 0 -

AV-32730 AV-27730 RM-C741

## Changing and Inserting Batteries.

Use only size AA batteries.

- Push down on the remote's battery cover and slide towards the bottom to remove it.
- Insert the two supplied AA batteries, carefully noting the  $\star$  and markings on the batteries and remote control. To avoid a short circuit, insert "-" end first, Ŋ
- Slide the cover back into place until it clicks into position.

ಣ

- have to reprogram the CATV and/or VCR codes (see page 12-13.)  $\Box$  If it takes more than a minute to change the batteries, you may
- If the remote control acts erratically, replace the batteries. Battery life is usually six months to one year
- We recommend the use of alkaline batteries for longer battery life.

### Ш $\vdash$ Œ 4 -S G **Z** -⊢ ш G



Ω

### POWER

- ☐ Make sure that the TV/CATV switch is set to TV. Switch to CATV only if you plan to operate a cable box.
- Press the Power button on the remote control or the TV front panel. The On-Timer lamp will glow red.
- To turn the power off, press the Power button again. The On-Timer lamp will go out.
- The On-Timer lamp remains on while the On/Off Timer Function is active (see page 19).

### **ADJUSTING VOLUME**

Press the Volume button on the front panel or remote control. The volume slidebar will appear.

# ------

Press the  $\mathsf{Mute}$  button to instantly turn the volume off. To restore the volume to the previous level, press the  $\mathsf{Mute}$  button again.

### **CHANGING CHANNELS**

Q C

0

MENU 0 NC

JAC

### 1 10 Key Direct Access.

- Press the numbers on the remote's 10 key pad.
  For single-digit channel numbers press 0, then the number.
  For channels above 100, press the 100+ button plus the 2-digit number.

### CHANNEL -/+ button.

Press the CHANNEL -/+ button, it will scan the channels in order. When you scan channels, any station IDs that you have set scroll across the bottom of the screen. Note: After you operate the Auto Tuner Setup, all of the blank, or empty, channels will be removed from scanning so that there is no noise or channel snow when you scan, only active channels

Press and release the RETURN+ button to return to the previous channel. First, select a channel (game #1). Then, select another channel (game 2) with the 10 key pad and push the RETURN+ button to flip directly back and forth.

### Return+

Press and hold down the Rerunn+ button for three seconds. The message, "RETURN CHANNEL PROGRAMMED !" will appear and you can scan as you wish. Press Return+ again and you will go back to the Return+ channel. To cancel a Return+ channel, press and hold down the RETURN+ button for another three seconds and the message, "RETURN CHANNEL CANCELED I" appears.

Desing a number key or turning the set off will also cancel a Return+ channel.



### G N N N N Œ <u>ე</u> Œ ۵ ш EMOT

# SETTING THE CATV & VCR CODES

# CABLE BOX SETUP FOR REMOTE CONTROLS

- ☐ Many cable box brands have more than one code. If the first code does not work, try the other codes listed. Determine the correct code from the "CATV Codes" chart below.
   Slide the 2-Way Mode Selector Switch to CATV.
   Press and hold down the Display button.
   Enter the 2-digit code with the 10 key pad while continuing to hold down Display button.
   Release the Display button.
   Confirm the operation of the cable box.

### CATV Codes

Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
Archer	00 17 18	Matsushita	10 11	SLMarx	17 18
Cabletenna	00 18		15 17 18	Samsung	10 11 15 17 23
Cableview		NSC	15	Scientific Atlanta	07 08 21 22
Century	17 18	Oak		Signal	12 15 17 23
Citizen	17 18	Panasonic		Sprucer	10 11
Curtis	07 08 21 22	Philips	12 13	Standard Components	17 18
Diamond	00 18	Pioneer	04 05 23	Stargate	15 17 18 23
Eagle		Pulser		Teleview	15 17 23
Eastern	14	Quest	00 01 02 03 24 25	Tocom	00 17 25
GC Electronics	17 18	RCA	10 11	Unika	00 18
Gemini	:		18	Universal	17 18
General Instrument	00 01 02 03 24 25		17 18	Videoway	06 13 20
Gerrard	17 18		16	Viewstar	12 15
Hamlin	09 14 16			Zenith	06 13 20
Jerrold	00 01 02 03 24 25	Rembrandt	17 18		

# VCR SETUP FOR REMOTE CONTROLS

The remote is pre-programmed with the VCR codes for power on and power off, play, stop, fast-forward, rewind, and channel up and down.

- 1) Determine the correct code from the "VCR Codes" chart (page 11).
  2) Slide the 2-Way Mode Selector Switch to TV.
  3) Press and hold down the DisrLav button.
  4) Enter the 2-digit code with the 10 key pad while continuing to hold down DisrLav button.
  5) Release the DisrLav button.
  6) Confirm the operation of the VCR.
- ☐ Many VCR brands have more than one code. If the first code does not work, try the other codes listed. ☐ IF your VCR does not respond to any of the codes listed for the manufacturer, use your VCR remote control.

### G R A M 0 <u>~</u> ۵ Ш **–** О **∑** Ш $\alpha$

VCR Codes



Manuacure		Manulactures	enco	Wanturanen	
Admiral	06 21 25 27	Images	30	Sears	02 07 10 25 26 32
Aiwa	03 17 18 19 20 21 22	E.	10 17 19 21	Semitsu	22 25 27 33
	28 31	J.C.Penny	02 03 05 10 18 25 31	Sharp	06 21
Akai	17	Jensen	17 20	Shintom	22 31
Astra	03 10 18 29 30 31	JVC	00 10 17 19	Shogun	03 10 18 29 30 31
Audio Dynamics		JVC "B"	01	Signature	06 21
Aventura	03 17 18 19 20 21 22	Kenwood	17 18 19 20	Singer	22
	28 31		20 21 22	Sony	11 14 20 21 22
Beaumark	02 03 04 05 06 34	Lloyds	03 17 18 19 20 21 22 28 31	Soundesign	03 17 18 19 25 28 31
Belcor	22 33	Logik	03 11 13 17 18 19 21 28 31		05 12 16 21 25
Bell & Howell	07 11	asonic	03 10 18 22 29 30 31 33	nic	03 17 18 19 28 31
Broksonic	08 22 28	Magnavox	05 12 16 21 31	Syqmax	22 33
Candle	03 10 18 29 30 31	Magnin	03 10 18 29 30 31	Tatung	17 20 21 22
Canon	02 03 04 05 06 12	Marantz	18	Теас	03 05 06 12 17 18 19
	25 34	Marta	10 21 29 31 33		28 31
Cape Hart	22 33	Matsui	03 10 11 17 18 20 21 22 29	Technics	02 03 04 25 34
Сапега	03 10 18 29 30 31		30 31	Technivox	10 21 29 31 33
Citizen	10 21 29 31 33	Megasonic	02 07 10 32	Teknika	10 21
Classic	10 21 29 31 33	Memorex	07 10 11 21 25	Telefunken	09 20 21 22
Colortyme	18	MGA	13 31	Thomas	03 17 18 19 28 31
	03 07	MGN	03 10 18 29 30 31	TMK	09 21
æ	03 17 18 19 20 21 22	Midland	02 03 04 05	Toshiba	02 16 31
	28 31	Minolta	02 16 23 29 31	Totevision	03 10 18 29 30 31
	03 10 18 22 29 30 31 33	Mitsubishi	13 25 27		03 10 18 29 30 31
Curtis Mathes	02 03 04 05 06 12 25 34	Mont. Ward	06 21 22	search	18
Cyberex	03 10 18 29 30 31	MTC	03 10 17 18 19 20 21 22 28	Video Concepts	18
/Daytron	22 33			Videosonic	11 17 18 20 21 22
DBX	17 18	Multitech	03 06 17 18 19 28 31 34	XR-1000	03 17 18 19 21
Denon	02 03 04 05 06 34	National	02 03 04 05	Yamaha	11 17 18 20
Dumont	03 10 18 29 30 31	NEC	17 18	Zenith	14 15
Dynatech	03 17 18 19 20 21 22	Nikko	10 21 29 31 33		
	28 31	Olymbus	02 03 04 25 27 34		
Dynatone	10 21 29 31 33	Optonica	05 06 12 21		
Electrohome	13.26	Panasonic	02 03 04 25 31 34		
Electron	02 03 04 05 06 34	Paxsonic	03 10 18 29 30 31		
Electrophonic	10 17 19 20	Pentax	02 23 25		
Emerson	07 08 09 10 13 16 25 28	Philco	02 03 04 05 06 12 22 25		
Encore	02 03 04 05 06 12 25 34		33 34		
Everex	02 16 23 29 31	Philips	05 12 16 21 25		
Fisher	07 11 24 32	Pllot	10 21 29 31 33		***************************************
Funai	03 17 18 19 20 21 22	-	02 16 23 29 31		
	28 31		06 22 33 34		
General Electric	03 04 05 06 25 34	ProScan	02 03 04 05 11 13 21		
Go Video	30	Pulser	03 10 18 22 29 30 31 33		
Goldstar	10 21 29 31 33	Quasar	02 03 04 25 34		-
Granada	02 03 04 05 06 12 25 34	Randix	10 21 29 31 33		
Harley Davidson	03 17 18 19 20 21 22	RCA	02 03 04 05 21 25		
	28 31	Realistic	07 10 11 21 25		
Harmon Kardon	13	Samsung	03 10 18 29 30 31		
Harvard	22	Sansui	17 19 21		
Hitachi	02 16 23 29 31	Sanyo	07 11 16		
Homeline	10 21 29 31 33	Scott	08 09 13 28		

15

**a**  $\supset$ 

### $\supset$ Z ш Σ ш I G N I S O

### **USING THIS GUIDE**

# SYMBOLS USED IN THIS GUIDE:

Up and down arrows indicate you should button. This function allows you to: press the Menu Up or Menu Down 

- · Move vertically in the main menu
- · Move to the next letter, number, or · Move through a submenu, or
  - Back up to correct an error other choice in a submenu
- press the Menu Left or Menu Right button to: Left and right arrows indicate you should

A V

- Select the options in a submenu Select the highlighted item, or
- The "Press Button" means press that button on the remote control PRESS
- The helping hand points to the active, or highlighted item

CAPITAL LETTERS in order to avoid confusion with Button names are always WRITTEN IN SMALL menu functions of the same name.

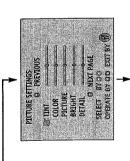
### **WORKING THE MENUS**

scrolling menu will appear on the screen. The tem that appears yellow is the selected item. To use the Menu, press any of the remote's 4-way cursor control buttons and the JVC

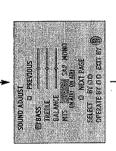
Factory settings begin with the Picture Settings menu. However, since Initial Setup is so imporant, this guide begins here. Please note that the menu screens depicted in this instruc-tion book are not actual representations of the screens but are intended to illustrate the order and wording of thes menus. The actual menu backgrounds are clear in color.

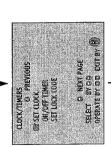
THEFTA! CETTIN

	8	
s	6 310 J	MGE Day by (
PREVIOUS	593 \$	VEXT PAGE 7 GG 7 GG EXTA
O PR		O NE
9110		SELECT
	)	











**CHANNEL SUMMARY** 

channel scanning, and lock out any "unauthorized" viewers from up to all 181 channels. fou can add or delete channels from the

STD (Standard) HRC

mpanies use on early all cable the following:

NOTES:

(Harmonically Related Carrier) IRC (Incrementally Related Carrier)

To CHANNEL SUMMARY To operate 

A V

SCAN

You can manually set channels to scan that uner Setup. Or, if a channel was too weak or a good picture but was picked up anywere too weak to be picked up by Auto way, delete it by removing the √.

PRESS CHANNEL -/+ to select the channel To the SCAN column 

CHID STAN ID A CHID STAN ID A To include or delete from scan 6 88 م دas √ ABC 03 티싱 8

PRESS EXIT when finished

Some cable systems experience interfer-Channel 95. You can delete this channel ence from radio frequencies on Cable from scanning by removing the √.

### STATION ID

You can label up to 25 channels with a station ID of up to four letters, using numbers, letters, or common keyboard characters.

▲▼ To ID column and 《► to operate STATION ID

CHANNEL 07

▲ To choose each letter and 
 ◆ to accept and move to the next letter

▲▼ To FINISH and
▼ to save

### **AUTO TUNER SETUP**

channels and memorize the active ones. automatically scan through all available During Auto Tuner Setup, the TV will

To AUTO TUNER SETUP 

To operate  AUTO (STO, HRC, IRC) AUTO (OTHERS) For AUTO (STD, HRC, IRC)\*\*  $\mathbb{A}^{\mathbb{A}}$ 

To operate  $\mathbb{V}$ 

PROGRAMMING!  Programming takes 3 to 4 minutes

PROGRAMMING OVER!

\*\* AUTO (STD, HRC, IRC) will access all over-the-air broadcast channels and more than 99% of cable systems. If the channels on your cable system are not selected after this procedure, use (AUTO

☐ Noise Mute will not work while Auto Tuner Setup is working.

be programmed to receive only active channels. Once the channels are acti-During Auto Tuner Setup the TV will vated here, they are automatically included in scan.

be included in scan. You can delete them from scanning by removing the  $^{\kappa}\sqrt{^n}$  mark in the SCAN column in the Channel Summary menu. Some weak or distant channels may 



### ETUP S INITIAL

here are two secons in Channel ummary. NOTES:

To mave up and down a column (e.g. from channel o channel) use the

channel number to scan to lock) use To move from item the arrow up/dowr CHANNEL-/+ button o item (e.g. from

work while you operate the Channel Summary. Noise Mute will not

...continued from previous page.

### CHANNEL GUARD / LOCK

To CHANNEL SUMMARY 

Tuner Mode lets you choose between over-the-air broadcasts (AIR) or cable

(CABLE) stations.

TUNER MODE

To TUNER MODE

To operate

<u>∧</u> ∀

To operate  $\nabla$ 

CHND SCAN ID œ 90 8 8 8 OHNO SCAN ID √ NBC √ ABC 8 8 8 8

PRESS 0 (zero) to lock or unlock a channel Use the CHANNEL -/+ button to go to any other channel you want to lock

Cable mode requires a cable hookup,

see page 6 for details.

CABLE, the channel display will appear blue. When set to AIR, the When you set the Tuner Mode to

display will appear yellow.

# CHANNEL GUARD MESSAGE

This message appears when someone attempts to watch a guarded channel:

CHANNEL GUARD.
PLEASE ENTER LOCK CODE BY
10 KEY PAD TO UNIDOK JT. THIS CHANNEL IS LOCKED BY

To watch a locked channel, enter the lock code on the 10 key pad. If the wrong lock code is entered this message will appear: INVALID LOCK CODE!

### TINT }

**△**▼ To TINT

To accentuate green

To accentuate red

To move to the next

### ▲▼ To NOTCH graphics and text.

The Notch Filter sharpens the edges of

NOTCH

To activate or deactivate . M

### There is no Notch Filter on the AV-27730. NOTES:

ADJUST

Ш

PICTUR

### NOISE MUTE

are not broadcasting or are too weak. Eliminates noise from channels that

▼ To make colors more vivid

**△**▼ To COLOR

F COLOR

TUNER MODE CABLE AIR

Exit when finished

PRESS

▲▼ To move to the next

To subdue colors

**△**▼ To NOISE MUTE ≪ To turn ON/OFF ☐ Noise Mute does not operate during the Auto Tuner Setup or while in the Channel Summary screen.

### SET VIDEO STATUS

Save Picture Settings as "Choice".

To decrease contrast To increase contrast

**△**▼ To PICTURE

PICTURE

▲ To move to the next

▲▼ To SET VIDEO STATUS To operate



▼ To operate the TINT option

Repeat the above steps to set each option. ▲▼ To move to the next option

▲▼ To SAVE AS CHOICE

☐ Access "Choice" by pressing the VibEo To save settings and exit

Status button on the remote control.

### **₹** AUTO DEMO

minutes, and you will see exactly what your demonstration of the features of your JVC television. Let it run, it takes about six The Auto Demo is an onscreen new TV can do.

To AUTO DEMO 

To operate A V

DEMONSTRATION

PRESS Any key to stop the Auto Demo

when you push the front panel CHANNEL+ and VOLUME- buttons at the ☐ You can also start the Auto Demo same time.

### **BRIGHT**

**△**▼ To BRIGHT

To lighten picture To darken picture

### F DETAIL

**△▼** To DETAIL

To make picture smoother To make picture sharper

1-9

### ADJUST ONDO ഗ



### MTS has no effect on normal sound broadcasts. NOTES

### F BASS

▲ ▼ To BASS slidebar

To emphasize bass

To reduce bass

### WTS (Multi-Channel **Felevision Sound**)

functions will work. among stereo, mono, and Second Audio MTS technology gives you a choice

**△**▼ To MTS Programs (SAP).

TIME 12:34 AM START CLOCK

MTS STEREO SAP MONO ON ALL ON

**△** ▼

The ON AIR arrow tells you if the current signal contains

To select the mode

A W

To set the minutes

To move to START CLOCK when done with settings

THANK YOU !!

the clock in order for any of your timer ence a power outage, you must reset If the TV is unplugged or you experioperate a Timer and you did not set functions to work. If you attempt to the clock you will get the following

### PONOFF TIMER

if you want to set the TV's clock to

NOTES:

You tell the TV to turn on and off. Use it as an alarm to wake up, as a program reminder, or as a decoy when you're out of the house.

timer, set the TV clock and move to START CLOCK. At

nousehold clack a

be pertectly timed with another

### **△**▼ To ON/OFF TIMER

To operate 

2020-03-09-03-	and extended to	nthanas SSCIRS	10.5
<b>5</b> 5	<u>ہ</u> ہے	0	Š.
ब ब	o 8	z	
00	⋖⋩	Ŋ	
55	- 5	⋝	ä
∾ ∾	A 07- EVERYDAY		8
	ONCE		
14	್ರಾ	⊻	ê
		S HAISH	
		ъ -	
14 C		TIMER .	
	<u> </u>	A second	
ZΞ	CHANNEL MODE	Ή	
	罗出	2	ă
医医	곳 응	3	*
Market .	MAN I	Total Control	

TV clock, press the arrow button ⊲⊳ to

start the clock.

other timer device same time as the

moment that the changes to the

the precise

To set the hour (AM/PM) you want the TV to turn on 

To move to minutes To set the minutes 

To accept ON TIME and to move to OFF TIME (set time again) 

To move to CHANNEL 

To move to MODE To select channel 

Choose ONCE or EVERY-A√

Choose YES for on, NO for off A W 

To YES NO

To save settings To FINISH 

In order for ON/OFF Timer to work, the clock must be set.

ON/OFF Timer cannot be set to locked or guarded channels.

### F SET CLOCK

tions. You must set the clock before timer The Clock is the heart of all timer func-

**△**▼ To SET CLOCK

¶

▼

To operate

To set the hour (AM/PM)

To move to minutes 

☐ Keep the TV in STEREO mode to

To decrease treble To increase treble

**△**▼ To TREBLE

TREBLE

▲▼ To move to next

stereo or SAP)

get the fullest sound quality.

alternative soundtrack, if avail-

SAP will allow you to hear an

0

Choose MONO only to reduce

excess noise in a program.

To start the clock

A V

POWER INTERRUPTED message:

> To shift balance to the right To shift balance to the left

**△**▼ To BALANCE

F BALANCE

WOULD YOU SET CLOCK FIRST? S S

cancelled and you will get this message if you try to use the On/Off Timer: After a power interruption clock will be

arrow in the MTS menu. Unfortunately, it is common for some cable companies to

You can tell if a program is broadcast in stereo by the position of the ON AIR

Some Sound Advice

mono equipment. It connected to a cable system, the sound is at the mercy of squash the transmission of stereo programs to mono because they only have

that cable company — if they broadcast in mone, you receive mone sound

regardless of the original stereo programming.

set the Tuner Mode (page 16) to "Air" instead of "Cable," you will be able to pick

up stereo broadcasts in stereo.

television networks. If you connect your TV to an antenna instead of cable, and

Fortunately, most programs that are broadcast in stereo are aired on the major

YOU CANNOT OPERATE ON/OFF TIMER



### ഗ Ξ Ш <u>-</u> \_ 4 $\alpha$ ш Z

# ш

### NOTES:

Closed Caption settings that you set here, see page 22 for details activate the

Closed Captions and Text triformation on CC1 or 71, CC2, CC3, CC4 and 72, T3, and T4 work, but are for future purposes. Chances

### F SET LOCK CODE

The Lock Code locks and unlocks Channel Guard.

To SET LOCK CODE 

To operate  $\mathbb{A}$ 

The padlock A appears

Press the access code zero (0)

EINEH LOCK CODE

To the first number place To choose the number  $\mathbb{Z}$ 

are that you will find the captions or text on CC1 or T1.

Continue for all three numbers To move to the next place  $\mathbb{A}^{\mathbb{A}}$ 

To FINISH 

To save settings and exit <u>&</u> ♥

If you forget the Lock Code you can set another one the same way.

After a power interruption, you must reset the lock code. 

### TV SPEAKER

them off to listen to the stereo speakers. You can listen to the TV speakers, or if your set is connected to a stereo, turn

To turn the speaker ON or OFF To TV SPEAKER  $\mathbb{A} \mathbb{A}$ 

Exit when finished (PRESS)

TV SPEAKER ON OFF

☐ TV Speaker will be cancelled after a power interruption.

☐ Before you set TV Speaker from Off to On, make sure that the volume

### F AUDIO OUT

Select fixed level or variable level audio output signals.

To AUDIO OUT  VARI FIX To FIX or VARI AUDIO OUT

VARI: Adjust the volume of the external speaker by using the TV VoLume +/- button or the TV's remote.

speaker with the audio device controls FIX: Adjust the volume of the external

speakers, shut off the TV's speakers When using external amplifiers and (page 20).

PIP (PICTURE IN PICTURE)

PIP allows you to view two pictures

simultaneously.

PRESS (PIP) ON/OFF

2-TUNER PIP

### F LANGUAGE

Choose from English or French onscreen menus and displays.

To activate <u>&</u> ₩

To LANGUAGE

A

ExIT when finished PRESS

LANGUAGE ENG FRE

If included in a program, you can view closed captions or text information.

CLOSED CAPTION

To CLOSED CAPTION abla

you may have hooked up to your TV as

the source for the PIP screen.

PRESS SOURCE

You can select from the various inputs

SOURCE

CAPTION: CC1 CC2 CC3 CC4 TEXT : T1 T2 T3 T4 To operate 

Continued on next page...

FINISH

\*Only available on AV-35750, AV-32750 and AV-27750.

—ANTENNA/CABLE →V-1 → V-2\*>

To select a caption channel

A V

(CC1 to CC4)

...continued from previous page.

To accept that channel and

D

move to TEXT

SWAP SWAP

screen with the picture in the PIP screen. You can swap the picture in the main

The following models have 2-Tuner PIP:

AV-35750 AV-32750 41/-27750

NOTES

RNOIL

. い ヱ

 $\supset$ 

ш

Z 0

UTT

Ω

SWAP PRESS

### PP FREEZE

To accept that channel and

move to FINISH

To select a text channel

(T1 to T4)

To exit and save settings

A V

The following models have sin-

gle tuner PIP: AV-32730

> fou can freeze the main screen into a PIP picture, or freeze the PIP screen.

Model AV-32720 does not have PIP.

FREEZE PRESS ☑ When PIP is off, Freeze will put the main screen into a still PIP picture. When PIP is on, Freeze will stop the PIP picture.

### MOVE

You can move the PIP screen to any of the TV's four corners.

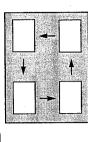
Move PRESS

so simple to use. You don't need to hook

up a VCR or other video source to get PIP. We built in a second tuner for the

easiest PIP to use in the industry.

section of the remote control make PIP (AV-35750, AV-32750, and AV-27750 ONLY.) CHANNEL -/+ buttons in the PIP



□ Each press of the Move button will shift the PIP picture one position.

### PIP CHANNEL -/+

going back to the main screen. (You do need to go back to the main screen to change from Cable to Air or Air to Cable.) you can change the PIP channel without On models with PIP CHANNEL -/+ buttons

level is low!

### S NO L O N O ш. Z BUTTO



If a large black box covers 80% of your screen, the Text Mode is probably, set. Press Closed Caption to turn it. off. NOTES:

### PP DISPLAY

The Display screen shows the current status of timers and inputs.

PRESS DISPLAY

NAME OF THE OWNER, OF THE OWNER, OF THE OWNER, OF THE OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER,	2555	THE R. S.	
		25.32	
	(6450A)	23356	
	8.22		
100000000000000000000000000000000000000	1000	2002	200
Sec. 200	2.00	2100000	
12:20 PM 0FF	200	200	200
	Sec. 19.	1100 0	225
	81.78	20.00	2.59
30.0	B 4000		BKD!
- X		- 1	1
100 miles	, LLC	400 CW	200
	···	~~~ C	27.5
		-	825
	111		90
200	200	X 100	
	100	200	
	3.5		
100	1000	90000	
	Sec. 1984	34.00	200
	100	7.0	
	11.00	200	
	S. 300		
		200	
	255		
	200	300.250	\$ 3.00
	100		200
·······································	30 S. S. S.	1.11	2002
	200,000	100	0.83
	4.00	2	
190	35000	100	CONT.
9.0	600		2.0
<b></b>	100		W.A.
	36.5	- 22	200
36.33 S.	ON/OFF TIMER	100	05.
	200		

- ☐ The channel or AV input (Channel
- Current time (12:20 PM)
- O Sleep Timer status minutes remaining (OFF)
- □ On/Off Timer status (Everyday, on at
  - ☐ Each press of the DisPLAY button changes the display mode: 7:00 PM, off at 10:00 PM)

→DISPLAY → TIME → CHANNEL → OFF

### CLOSED CAPTION

View the closed captions or text when included in a program.





- □ To change caption or text channels see pages 20 and 21.
- remain on screen until it disappears. ☐ To access a captioning option or to turn one off, allow the display to In seconds the captions will start.

## VIDEO STATUS

The Video Status button lets you select the "Choice" settings of the Set Video Status menu, Theater Status or reset to factory

hrough the TV's front firing speakers. Create a deep, 3-Dimensional sound

effect by channeling the sound

"Standard" resets the picture settings to factory standard levels. "Choice" consists of the settings that you saved in the Set Video Status menu, page <u>છ</u>

The 100+ button accesses all channels

(T) 100 +

above Channel 99.

To move to Channel 124:

"Theater" for a film-like look to video.

PRESS VIDEO STATUS

→CHOICE →THEATER → STANDARD

2 (two) 4 (four)

PRESS PRESS

100+ PRESS

### P SLEEP TIMER

case you fall asleep. Program it to work Sleep Timer turns off the TV for you in in intervals of 15 minutes up to 180.

The remote will control your VCR. You

**POLYCE BUTTONS** 

record, pause, stop, channel scan,

and power on and off.

can play, rewind and fast-forward,

PRESS SLEEP TIMER

### SLEEP TIMER MESSAGE:

shut-off, this message will appear: 20 seconds prior to the automatic

### PUSH SLEEP TIMER BUTTON TO EXTEND. GOOD NIGHT!!

the Sleep Timer button to delay turn You then have 20 seconds to press off for another 15 minutes.

HYPER SURROUND

### MUTE MUTE

will restore the sound to the last level The MUTE button turns the sound off completely when you press it. Or, it when you press it again.

tion on mute and volume settings see page 11. For more informa-NOTES:

### P RETURNA

There are two kinds of Return, regular and Return+. Return+ — You can set a "return" channel to come back to when you scan with CHANNEL -/+.

PRESS RETURNH and hold for 3 seconds Scan through the channels

with the CHANNEL -/+ button

RETURN+ to go back to the return channel PRESS

the TV's power off cancels Return+. □ Pressing a number key or turning

See page 11 for more information. Return — You can set return to a channel after moving to another channel via the 10 key pad.

> The remote is preset to control a JVC VCR. Put in the code 00 for a JVC brand VCR. For any other brand, you

RETURN PRESS

must set the manufacturer's code

(see pages 12 to 13).

Move to another channel

RETURN PRESS

### **NUMBER BUTTONS** 10 KEY PAD

N/Video selects the input mode.

PRESS TV/VIDEO ¹ ≥ 小

TV / VIDEO

Press two number buttons to move to a The Number Buttons are from 0 to 9. channel.

To move to Channel 7:

→ TV 

→ VIDEO-1

→ VIDEO-2

→ TV

→ VIDEO-2

→ TV

→ VIDEO-2

→ TV

→ VIDEO-2

→ VIDEO-2

→ VIDEO-2

→ VIDEO-2

→ VIDEO-2

→ VIDEO-2

→ VIDEO-3

→ V

AV-27750, AV-32750, AV-35750

AV-27730, AV-32720, AV-32730

- oadiv ←

PRESS 0 (zero)
PRESS 7 (seven)



### $\vdash$ Z 4 $\alpha$ Œ 4 ≥ Ш LIWIT

For Canadian model televisions, see separate sheets for Warramty/Garantie and JVC Authorized Service Centers in Canada JVC COMPANY OF AMERICA warrants this product and all parts thereof, except as set forth below TO THE ORIGINAL PUR-CHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original purchase for the period as shown below (the "Warranty Period"). The picture tube is covered for two years.

lodel No.	Serial No.	Parts	Labor
		1 YEAR	1 YEAR

This limited warranty is valid only in the fifty (50) United States, The District of Columbia and the Commonweath of Puerto

### IVC WILL:

If this product is found to be defective, repair or replace defective parts at no charge to the original owner. Such repairs will be made during regular business hours only at JVC authorized service centers. All parts repaired or replaced are warrantied for the remainder of this Warranty Period only. All products and parts should be brought to an authorized service center on a carryin basis except for those models with a screen size larger than 25 inches which are covered on an in-home basis.

### YOU MUST:

 Return your products to a JVC authorized service center with a copy of your bill of sale. For the authorized JVC service center nearest you, call toll free (800) 252-5722. • if service is not locally available, box the product carefully, preferably in its original container, and ship it, insured, to the near-lest authorized service center with a copy of the bill of sale and a letter of explanation as to the problem. Call the toll free number above for the address.

### WHAT IS NOT COVERED:

 Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty instal-lation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if connected to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, or removed;

Initial installation, removal for repair, and reinstallation after repair is not covered;

(3) Operational adjustments covered in the Owner's manual, normal maintenance, video and audio head cleaning;
 (4) Damage that occurs during shipment, due to an act of God, or of consequence to cosmetic changes;

Signal reception problems and failures due to line power surger

Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus (Needle) are covered for 90 days from the date of purchase; Accessories, and:

Batteries (except for rechargeable batteries which are covered for 90 days from date of purchase.)

here are no express warranties except as listed above.

HE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILTY, IS LIM-TED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN. JVC SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THIS PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES. WHETHER DIRECT, INCIDENTAL, OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING SOUT OF ANY BREACH OF THIS WARRANTY, ALL EXPRESS AND IMPLED WARRANTES, INCLUDING THE WARRANTY OF MERCHANTABILITY AND FINIOLIZED THE WARRANTY OF MERCHANTABILITY AND FINIOLIZED THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long the warranty lasts, so these may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary

you have questions concerning your JVC product, please contact our Customer Relations Department:

JVC COMPANY OF AMERICA

41 Stater Drive

Refurbished products carry a separate warranty. This warranty does not apply for details of refurbished product warranty. Please refer to the refurbished product warranty information packaged with each refurbished product. Elmwood Park, New Jersey 07407 DIVISION OF US JVC CORP.

### ഗ CENTER Ш SERVIC Ω AUTHORIZE



For Canadian model televisions, see separate sheets for Warranty/Garantie and JVC Authorized Service Centers in Canada

# CALL TOLL FREE (800) 252-5722

- To locate the JVC Authorized Service Center nearest you.
- To purchase parts or accessories.
- For customer relations or hook-up assistance.

3 2

To locate the JVC authorized dealer nearest you.

### JVC SERVICE & ENGINEERING COMPANY OF AMERICA

DIVISION OF U.S. JVC CORP.

# FACTORY SERVICE CENTER LOCATIONS

Dear customer:

In order to receive the most satisfaction from your purchase, read this guide before operating the unit, and before calling for service make surve you check the Troubleshording pages at the end of this book, in the event that repair is necessary, or for the address nearest you, please refer to the factory service center list below, or within the continental United States, call the toll free number above for an authorized service center. Remember to retain your bill of sale for warranty service.

South San Francisco, CA 94080-1804 (415) 871-2666 Honolulu, HA 96819-2040 2969 Mapunapuna Place Aurora, IL 60504-8149 390 Dubuque Avenue 705 Enterprise Street (708) 851-7855 (808) 833-5828 Lawrenceville, GA 30243-5357 10700 Hammerly Suite 110 500 Lakes Parkway 8192 State Road 84 Houston, TX 77043 Davie, FL 33324 (954) 472-1960 (404) 339-2522 713) 935-9331 Fairfield, NJ 07004-2105 Cypress, CA 90630-0024 Ashland, MA 01721-2377 5665 Corporate Avenue 107 Little Falls Road (201) 808-9279 230 Eliot Street (714) 229-8011 (508) 881-5923

Sophisticated electronic products may require occasional service. Just as quality is a keyword in the engineering and production of the wide array of JVC products, service is key to maintaining the high level of performance for which JVC is world famous. The JVC service and engineering organization stands behind our products.

JVC Service & Engineering Company of America Division of U.S. JVC Corp. National Headquarters 107 Little Falls Road

Fairfield, NJ 07004-2105



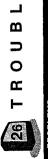
### SHIPPING INSTRUCTIONS

 Pack the TV in the original carton or one of equivalent size and strength. Use the original foam cushions or equivalent padding. · Print your home address on both the outside and inside of the and a copy of the bill of sale.

shipping carton.

Send to address nearest you in the list above.





SHOOTING

Ш

### A building or airplane can reflect the original signal producing a second, delayed one. Adjust the • The antenna may be damaged, disconnected or turned. Check the antenna connection, page 6. • It is normal for the TV to emit crackling sounds when turned on or off. Unless the sound or picture become abnormal, this is fine. cleaner, or neon sign. You will have to move the antenna away from the source of the interference There could be interference from a running high wattage appliance such as a hair-dryer, vacuum Make sure the MTS mode is properly set. Refer to page 18 for details on setting MTS Modes. There could be interference from another energy consuming appliance, such as a computer, Closed Caption Text Mode is on. Press the Closed Caption button until you select Off. Perhaps the On/Off Timer is set, press the power button, check page 19. The power was interrupted or the power cord unplugged. Reset the clock, check page 19. The Sleep Timer may be set. The power was interrupted and the clock not reset. Reset the clock, check page 19. Video Status mode may be set to an inappropriate setting. Check pages 17 and 22. Make sure the channels are programmed. See Channel Summary, page 15. Perhaps the channel is locked, select it with the 10 key pad and follow instructions. It is normal to feel a surge of static electricity if you brush over or touch the screen. The input mode (TV or Video) could not be set properly, refer to page 23. The tuner mode (in the menu selection) could be set improperly, refer to page 16. The station may be having difficulties, check to see if other channels are operating normally. Perhaps you have experienced a blown circuit breaker or fuse or a power outage. Make sure there are no objects blocking a clear path from the remote to the TV. another TV or VCR. Move any other such appliances farther away from the TV Check that the TV/CATV switch is in the proper position — set to TV to view television. Maybe you are too far from the TV, you must be within 23 feet (or 7 meters). DON'T WORRY ABOUT THIS, IT'S NORMAL TV Speakers may be turned off in the menu, see page 20. The volume may be set at zero (0) or the Mure button pressed. Check that the batteries are still working and properly installed. or change it to a coaxial cable which is less prone to interference. Tint and color may be improperly adjusted. Check page 17. CHECK If it is damaged, you will have to replace it. See if the power cord became unplugged The antenna could be disconnected antenna position. Bilingual or stereo pro-grams can't be heard Screen is 80% black fou cannot select a The clock is wrong No sound from TV No picture or sound Occasional crack-Remote control is not operating Poor color quality across the screen NOT A PROBLEM Static electricity speakers at all Lines or streaks Spotted picture Double picture Snowy picture/ Power turns off certain channel Image noise ling sounds PICTURE SOUND No power (Ghosts)

MODEL	AV-27730	AV-27750	AV-32720 AV-32730	AV-32750	AV-35750
Type			Color Television		
Reception Format		NTSC system, B	NTSC system, BTSC system (Multichannel Sound)	nannel Sound)	
Reception Range		VHF Sub Mid, Mid (181-channel	VHF 2 to 13, UHF 14 to 69 Sub Mid, Mid, SUper, Hyper and Ultra bands (181-channel frequency synthesizer system)	59 Ultra bands zer system)	
Power Source			AC 120 V, 60 Hz		
Power	Max. 115W	Max. 120W		Max. 135W 1.8 A	
Screen Size	27" / 69 cm mea Full si	27" / 69 cm measured diagonally Full square	32" / 78 cm measured diagonally Full square	sured diagonally luare	35" / 89 cm measured diagonally, Full square
Audio Outout			3 W + 3 W		
Speakers		2" x 4 3/4" / 5 x 12 cm oblong type x 2	cm oblong type x 2		3 3/16" x 4 3/4" / 8 x 12 cm oval x 2
Antenna Terminal		75 ohms (VHF)	75 ohms (VHF/UHF) terminal (F-type connector)	se connector)	
External Input Jacks		Vic Audio: 500 n	Video: 1 Vp-p, 75 ohms Audio: 500 mVrms (-4dBs), high impedance	impedance	
S-Video Input Jack	1	Y: 1 V	Y: 1 Vp-p positive, 75 ohms (negative sync provided) C: 0.286 Vp-p (burst signal), 75 ohms	p positive, 75 ohms (negative sync pro 2: 0.286 Vp-p (burst signal), 75 ohms	ovided)
Audio Output Jacks		More that low impedance	More than 0 to 1550 mVrms (+6 dBs), low impedance (400 Hz when modulated 100%)	(+6 dBs), ulated 100%)	
AV Compu Link Jacks		3.5 mm ø mini jack x 2		3.5 mn jack	3.5 mm ø mini jack x 2
External Dimensions (W x H x D)	25 7/8" x 23 65.5 x 58.0	25 7/8" x 23 1/8" x 20 1/2" 65.5 x 58.6 x 51.8 cm	30 1/4" x 26 1/8" x 21 5/8" 76.8 x 66.4 x 54.8 cm	1/4" x 26 1/8" x 21 5/8" 76.8 x 66.4 x 54.8 cm	33 7/8" x 30 1/8" x 23 3/4" 86.0 x 76.5 x 60.3 cm
Weight (lbs./kg.)	73.3	73.3 / 33.3	114.0 / 51.8	114.7 / 52.1	152.3 / 69.2
Accessories			Remote control x 1 AA Batteries x 2		

Specifications subject to change without notice.

### AV-27750(US&CA) STANDARD CIRCUIT DIAGRAM

### **■NOTE ON USING CIRCUIT DIAGRAMS** 1.SAFETY

The components identified by the Asymbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended

### 2.SPECIFIED VOLTAGE AND WAVEFORM **VALUES**

The voltage and waveform values have been measured under the following conditions.

(1)Input signal

:Color bar signal

(2)Setting positions

of each knob/button and variable resistor

:Original setting position

when shipped

(3)Internal resistance of tester

:DC 20kΩ/V

(4)Oscilloscope sweeping time

⇒20µS/div :H

⇒5mS/div ٠٧/

:Others => Sweeping time is

specified

(5) Voltage values

:All DC voltage values

\* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

### 3.INDICATION OF PARTS SYMBOL[EXAMPLE]

●In the PW board

### 4.INDICATIONS ON THE CIRCUIT DIAGRAM

### (1)Resistors

Resistance value

No unit

:[KΩ] Κ

[ΩM]: М

Rated allowable power

No indication :1/6[W]

Others \•Type

No indication :Carbon resistor

 $: [\Omega]:$ 

:As specified

MFR

:Oxide metal film resistor

MPR

OMR

:Metal film resistor

:Metal plate resistor

UNFR

:Uninflammable resistor

FR

:Fusible resistor

\* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

### (2)Capacitors

Capacitance value

1or higher

:[pF]

less than 1 :[µF]

Withstand voltage

No indication :DC50[V]

Others

:DC withstand voltage[V]

AC indicated :AC withstand voltage[V]

\* Electrolytic Capacitors

47/50[Example]:Capacitance value[ $\mu$ F]/withstand voltage[V]

Type

No indication: Ceramic capacitor

MY

:Mylar capacitor

MM

:Metalized mylar capacitor

PP

:Polypropylene capacitor

MPP

:Metalized polypropylene capacitor

MF

:Metalized film capacitor

TF

:Thin film capacitor

ΒP

:Bipolar electrolytic capacitor

TAN

:Tantalum capacitor

(3)Coils

No unit

:[µH]

:As specified

Others (4)Power Supply

> :B1(136V) \_\_\_\_\_:B2(12V)

9V \_\_\_\_:5V

\* Respective voltage values are indicated.

(5)Test Point

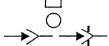
: Test point

: Only test point display

: Connector

: Wrapping or soldering

(6)Connecting method



: Receptacle

(7)Ground symbol

上 : LIVE side ground

: ISOLATED(NEUTRAL) side ground

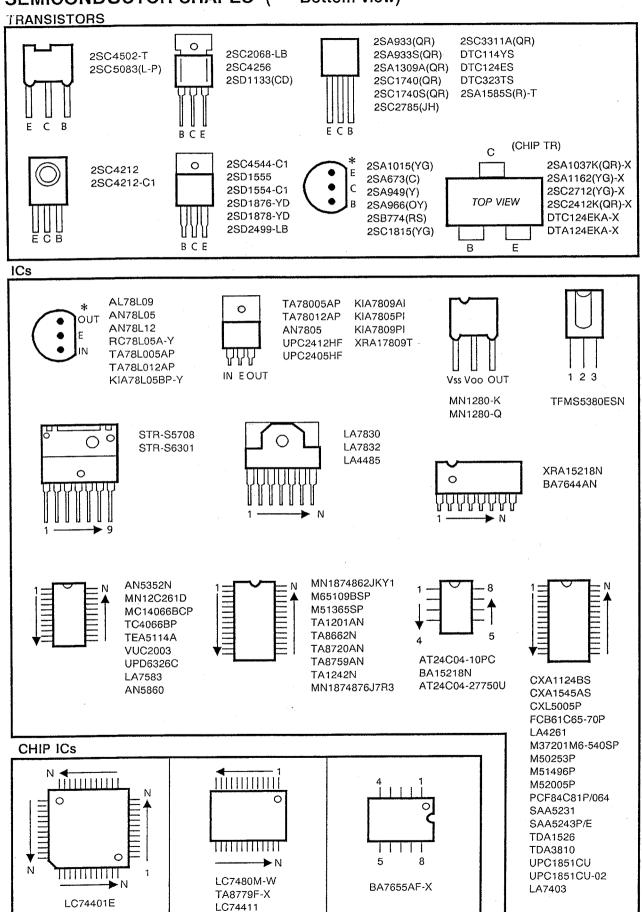
: EARTH ground : DIGITAL ground

### 5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (L) side GND and the ISOLATED(NEUTRAL): ( // ) side GND. Therefore, care must be taken for the following points.

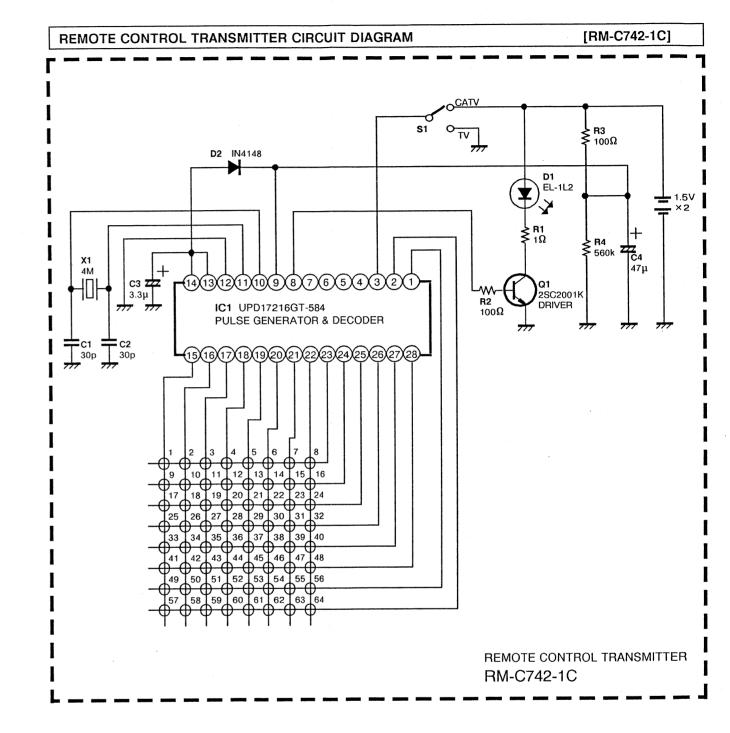
- (1) Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2) Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.
- Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

### SEMICONDUCTOR SHAPES (\* = Bottom view)

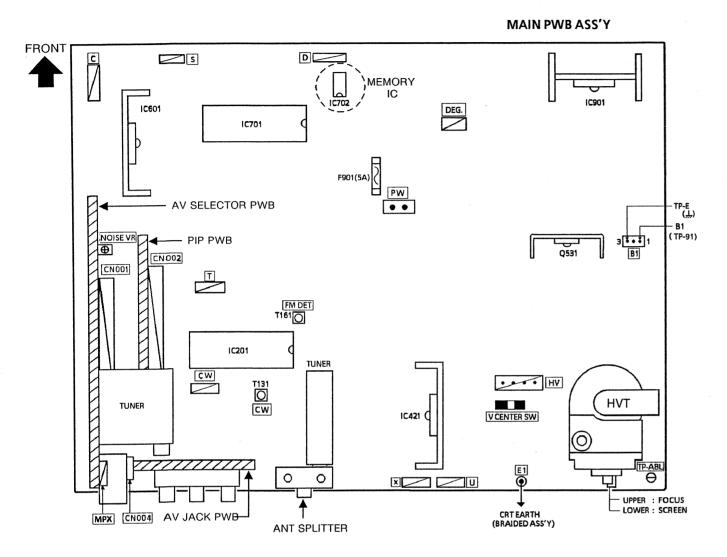


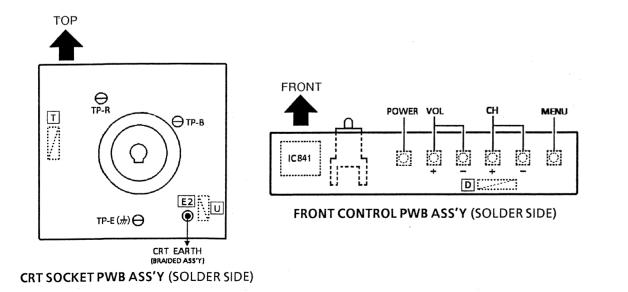
### **CHANNEL CHART**

			<del></del>	<del></del> (1	US) ·						1						(CA)						
MO TV	DE CATV	BAND	CHANNEL REAL DISP.	TUNEP BAND		MO TV		BAND	CHANNEL REAL DISP	TUNER BAND	 	MOI	DE CATV	BAND	CHANNEL REAL DISP	TUNEF		MO TV	DE	BAND	CHANNEL REAL DISP W+35 71	TUNEF BAND	
0	0	VL	03 04 05 06	I					W+36 72 W+37 73 W+38 74 W+39 75 W+40 76				0	VL.	03 04 05 06	I					W+36 72 W+37 73 W+38 74 W+39 75		
		νн	07 08 09 10 11 12	II					W+41 77 W+42 78 W+43 79 W+44 80 W+45 81 W+46 82					VH	08 09 10 11 12						W+41 77 W+42 78 W+43 79 W+44 80 W+45 81 W+46 82		
		MID	A 14 B 15 C 16 D 17 E 18 F 19 G 20 H 21	I				W+47 W+48 W+49 85 W+50 86 W+51 W+52 88 W+53 89	W + 47 83 W + 48 84 W + 49 85 W + 50 86 W + 51 87 W + 52 88 W + 53 89 W + 54 90	W + 47 83 W + 48 84 W + 49 85 W + 50 86 W + 51 87 W + 52 88 W + 53 89 W + 54 90					MID	A 14 B 15 C 16 D 17 E 18 F 19 G 20 H 21	II	II	-	-		W + 47 83 W + 48 84 W + 49 85 W + 50 86 W + 51 87 W + 52 88 W + 53 89 W + 54 90	
x O	SUPER	J 23 K 24 L 25 M 26 N 27 O 28 P 29 O 30 R 31 S 32 T 33 U 34	K 24 L 25 N 26 N 27 O 28 P 29 O 30 R 31 S 32 T 33	×	0	ULTRA	W + 56 92 W + 57 93 W + 58 94 W + 59 100 W + 60 101 W + 61 102 W + 62 103 W + 63 104 W + 64 105 W + 65 106 W + 66 107 W + 67 108 W + 68 109	+ 57 93 + 58 94 + 59 100 + 60 101 + 61 102 + 62 103 + 63 104 + 64 105 + 65 106 + 66 107 + 67 108 + 68 109			-		x O		ULTRA	W + 55 91 W + 56 92 W + 57 93 W + 58 94	IV						
		W 1 36 W+1 37 W+2 38 W+3 39 W+4 40 W+5 41 W+6 42 W+7 43 W+8 44 W+9 45 W+10 46 W+11 47 W+12 48 W+13 49 W+14 50 YPER W+15 51	W+1 37 W+2 38 W+3 39 W+4 40 W+5 41 W+6 42 W+7 43 W+8 44 W+9 45 W+11 47 W+12 48 W+13 49 W+14 50 W+15 51	11 37 22 38 39 44 40 40 41 41 40 41 41 41 41 41 41 41 41 41 41 41 41 41					W+69 110 W+70 111 W+71 112 W+72 113 W+73 114 W+74 115 W+75 116 W+76 117 W+77 118 W+78 119 W+79 120 W+80 121 W+81 122 W+81 122 W+82 123 W+83 124 W+84 125			×	0		V 35 W 36 W+1 37 W+2 38 W+3 39 W+4 40 W+5 41 W+6 42 W+7 43 W+8 44 W+9 45 W+11 47 W+11 47 W+12 48 W+13 49 W+14 50	III					W+69 110 W+70 111 W+71 112 W+72 113 W+73 114 W+74 115 W+75 116 W+76 117 W+77 118 W+78 119 W+79 120 W+80 121 W+81 122 W+82 123 W+83 124 W+84 125		
			W + 15 51 W + 16 52 W + 17 53 W + 18 54 W + 19 55 W + 20 56					SUB	A-8 01 A-4 96 A-3 97 A-2 98 A-1 99	I					W + 16 52 W + 17 53 W + 18 54 W + 19 55 W + 20 56					SUB MID	A-8 01 A-4 96 A-3 97 A-2 98 A-1 99	II	
			W + 21 57 W + 22 58 W + 23 59 W + 24 60 W + 25 61	IV		0	×	UHF	14 \$ 69	IV					W + 21 57 W + 22 58 W + 23 59 W + 24 60 W + 25 61			0	×	UHF	14 \$ 69	IV	
		ULTRA	W + 26 62 W + 27 63 W + 28 64 W + 29 65 W + 30 66 W + 31 67 W + 32 68 W + 33 69 W + 34 70		-	PREA CABL	RECEIVI MIUM PP LE COMF	THE OGRAM	: 124CH : 56CH SUBSCRIPTIO MING FROM CE MAY BE REQUIR	RTAIN				ULTRA	W + 26 62 W + 27 63 W + 28 64 W + 29 65 W + 30 66 W + 31 67 W + 32 68 W + 33 69 W + 34 70	IV		CABL	RECEIVE MIUM PR LE COME	E THE ROGRAMI PANIES.	124CH 56CH SUBSCRIPTION MING FROM CE	RTAIN	



### MAIN PARTS LOCATION AND ALIGNMENT LOCATION



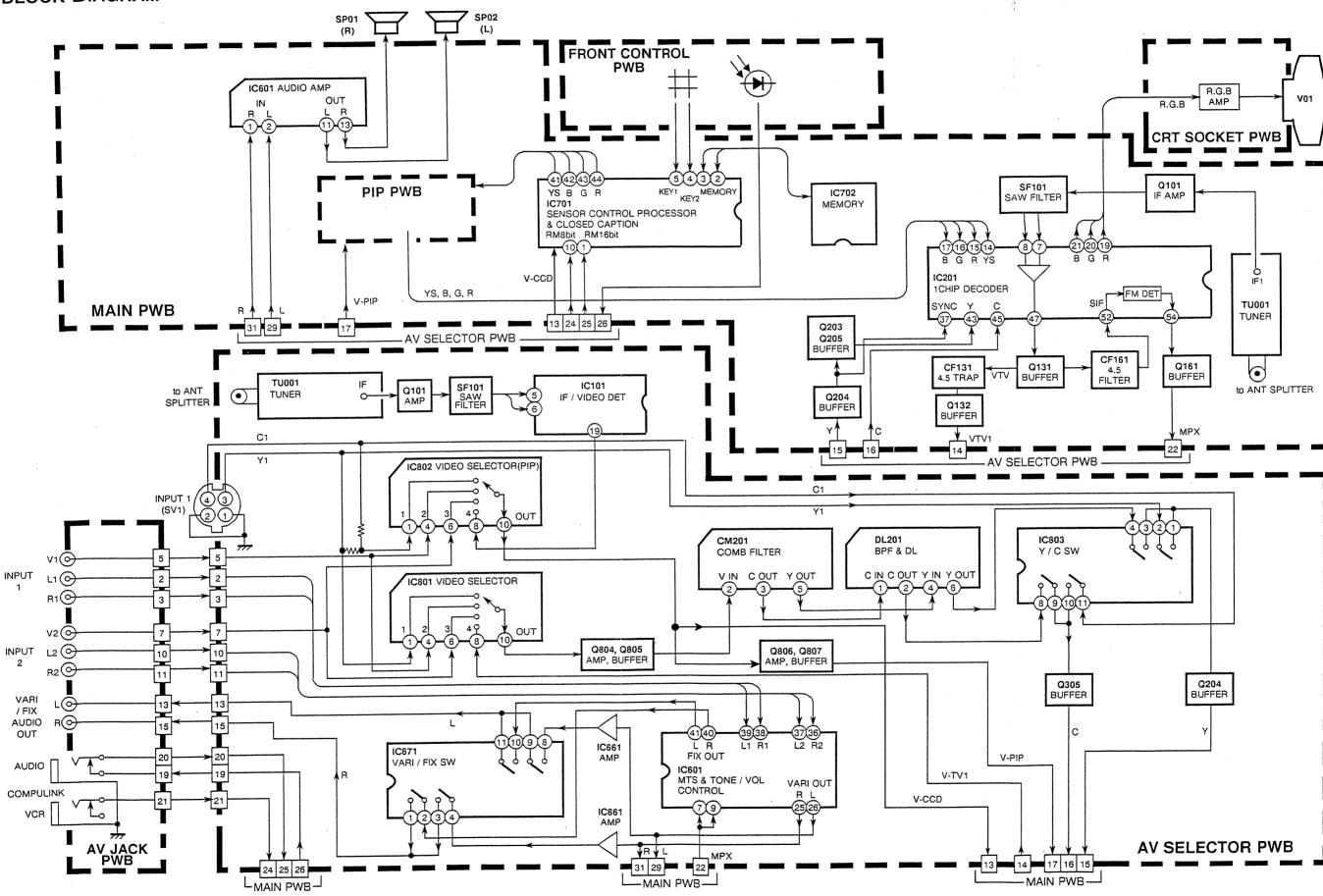


### **WIRING LIST**

P.W.B. or PART NAME	CONNECTOR NAME	WIRE	CONNECTOR NAME	P.W.B. or PART NAME
MAIN PWB ASS'Y	D	<b></b>	D	FRONT CONTROL PWB ASS'Y
MAIN PWB ASS'Y	Т	<b></b>	Т	CRT SOCKET PWB ASS'Y
MAIN PWB ASS'Y	U	<b>←</b>	U	CRT SOCKET PWB ASS'Y
MAIN PWB ASS'Y	H/V	<b>←</b>	WIRE	DEF. YOKE
MAIN PWB ASS'Y	DEG	<b>←</b>	WIRE	DEG. COIL
MAIN PWB ASS'Y	PW	<b>←</b>	WIRE	POWER CORD
MAIN PWB ASS'Y	S	<b>←</b>	WIRE	SPEAKER (L/R)
MAIN PWB ASS'Y	E1 CRT EARTH	<b>*</b>	EARTH WIRE	CRT (BRAIDED ASS'Y)
CRT SOCKET PWB ASS'Y	E2 CRT EARTH	<b></b>	EARTH WIRE	CRT (BRAIDED ASS'Y)

<sup>●</sup> NOTE :Refer to Main Parts and Alignment Locations for detailed connector positions.

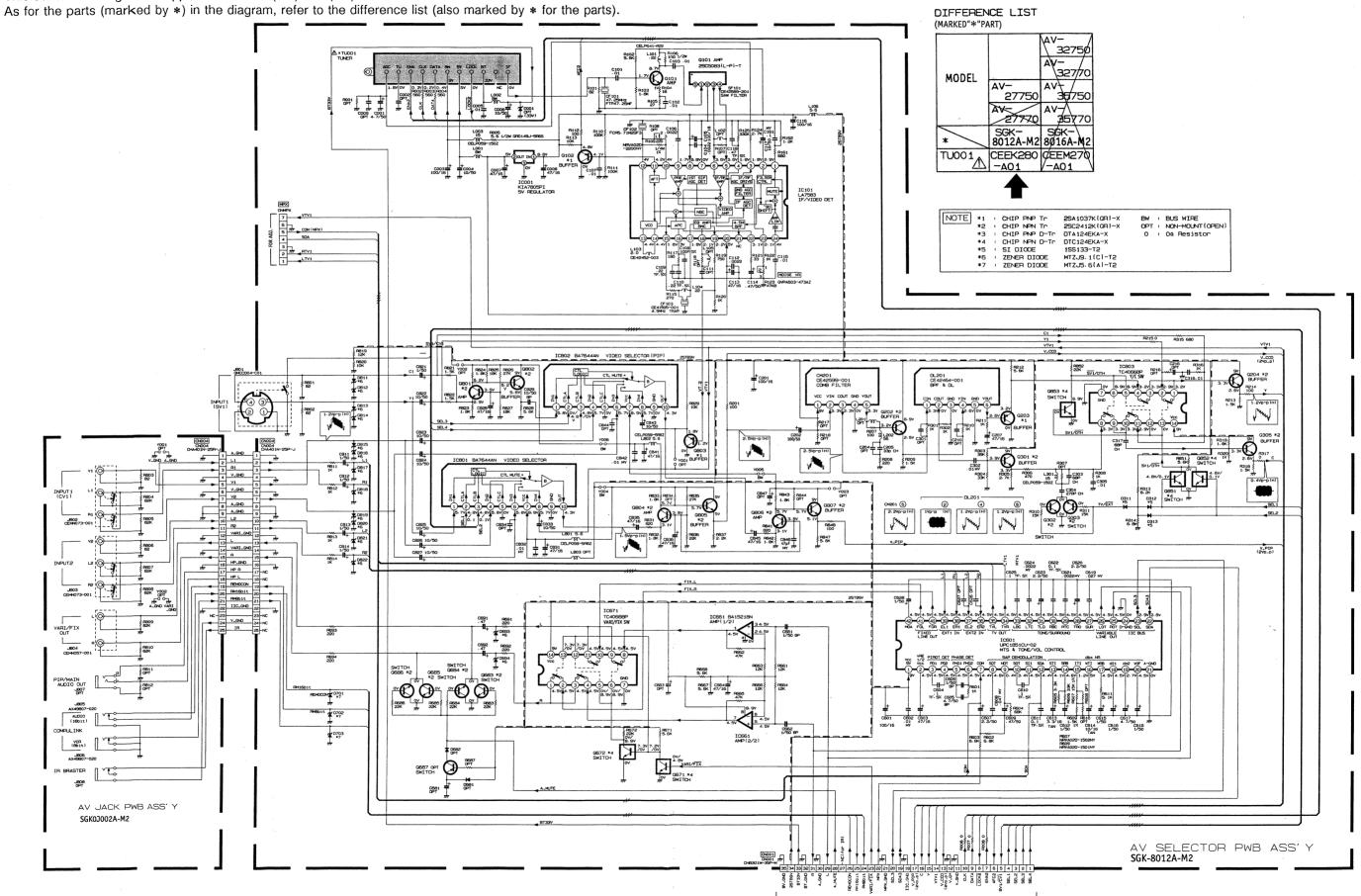
### **BLOCK DIAGRAM**



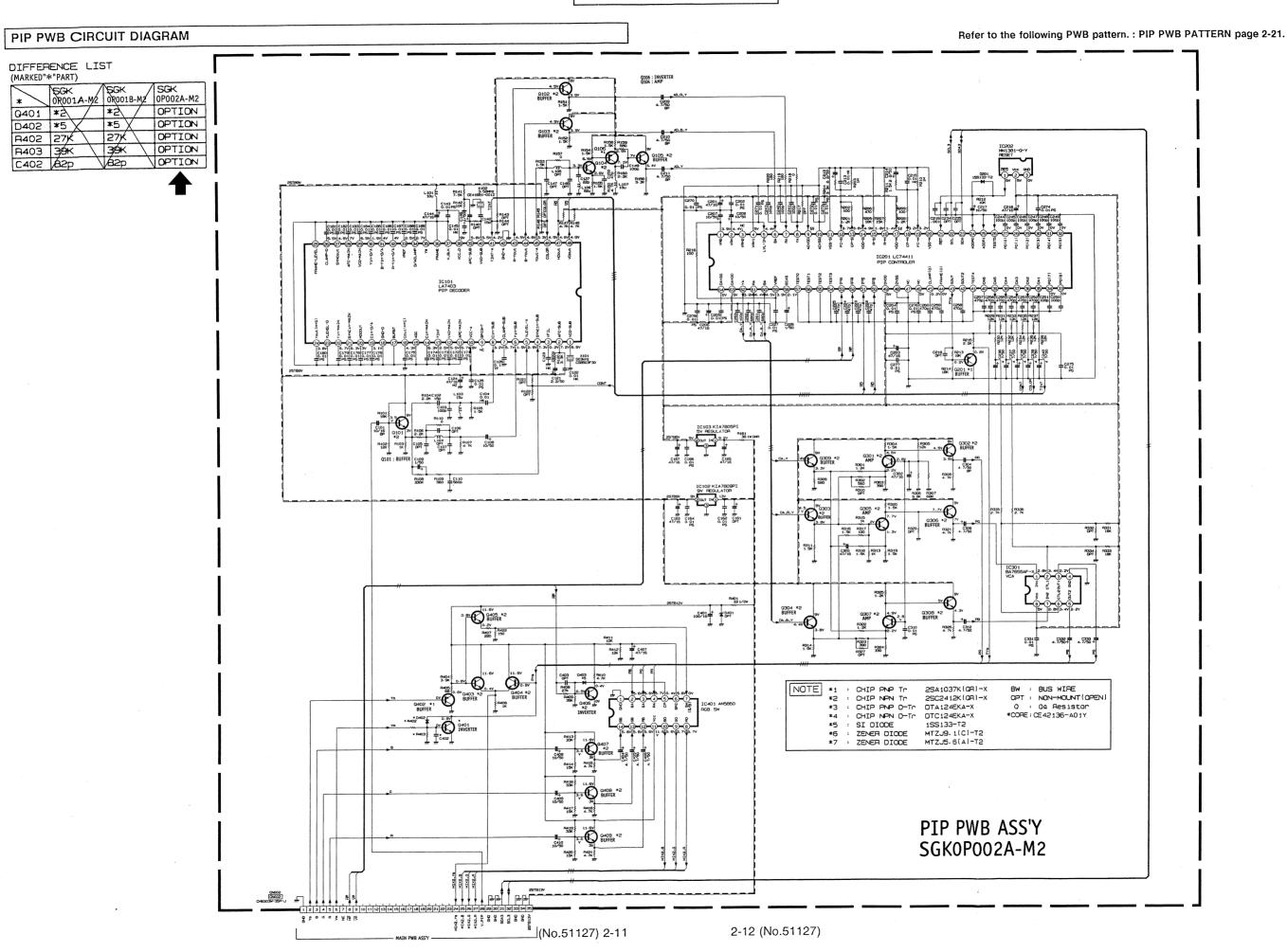
### AV SELECTOR PWB and AV JACK PWB CIRCUIT DIAGRAMS

This schematic diagram is applicable to both (US) and (CA) models.

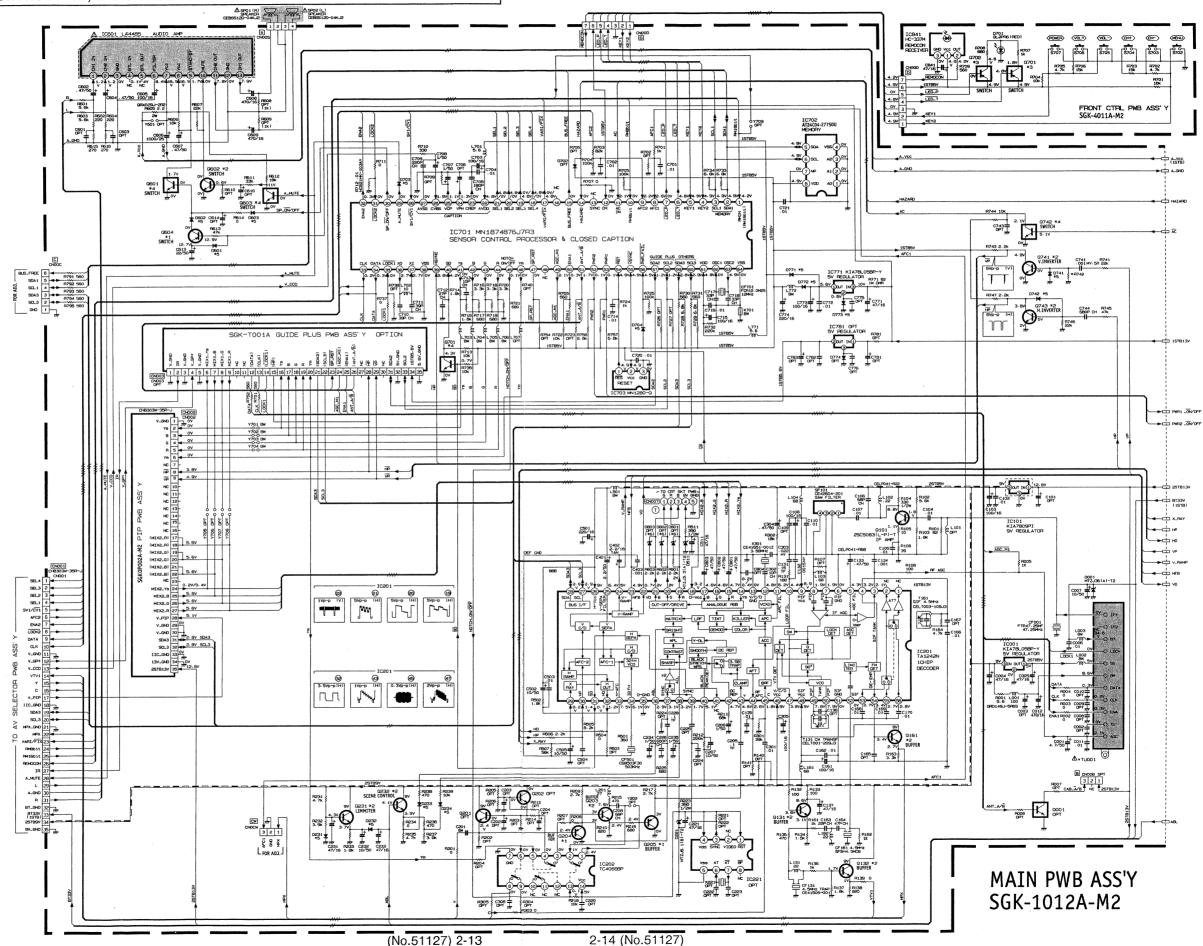
Refer to the following PWB pattern.: AV SELECTOR PWB PATTERN page 2-17~2-18. AV JACK PWB PATTERN page 2-22.

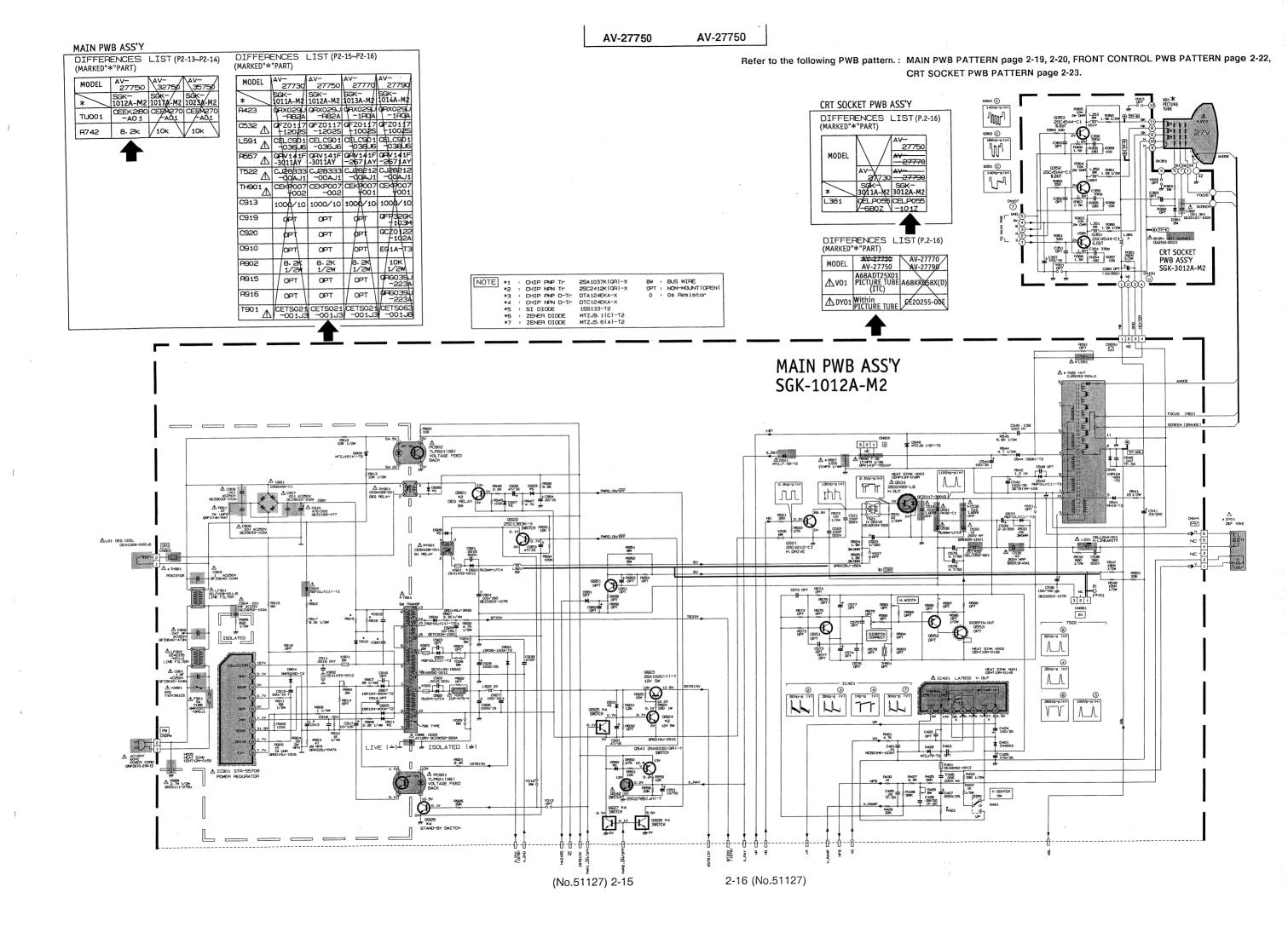


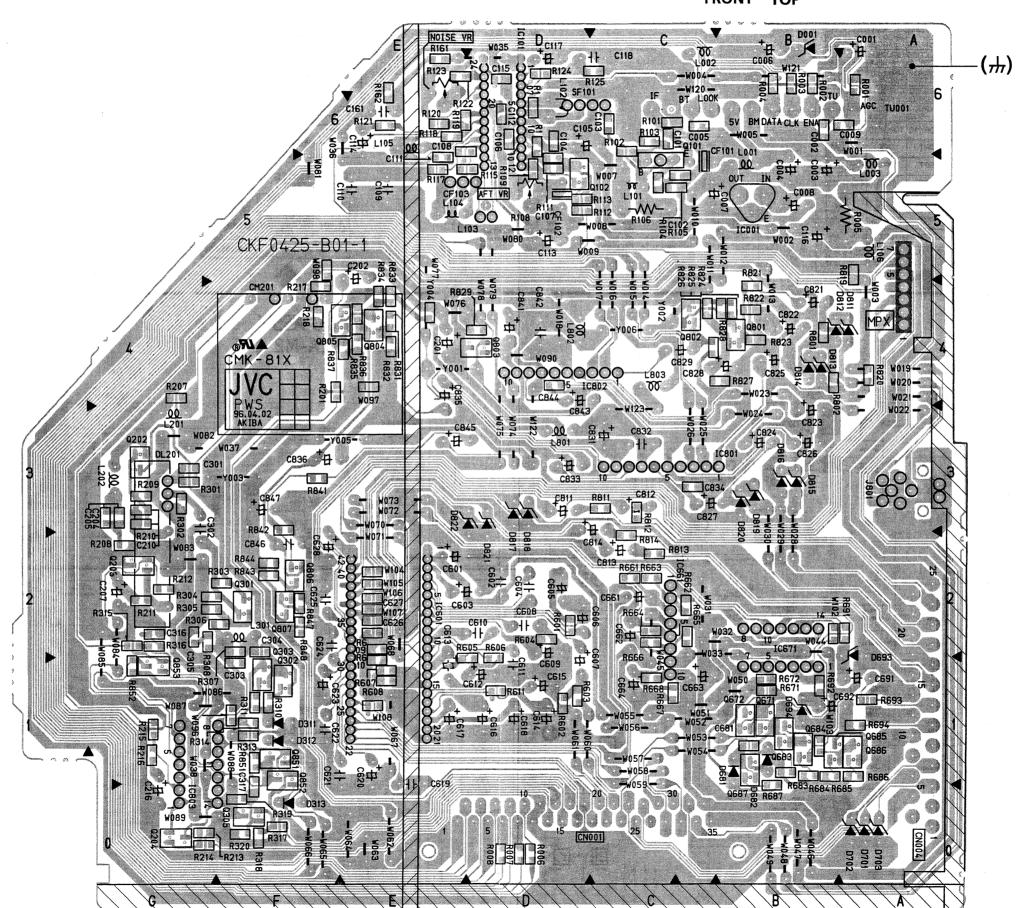
AV-27750 AV-27750



MAIN PWB, FRONT CONTROL PWB, and CRT SOCKET PWB CIRCUIT DIAGRAMS







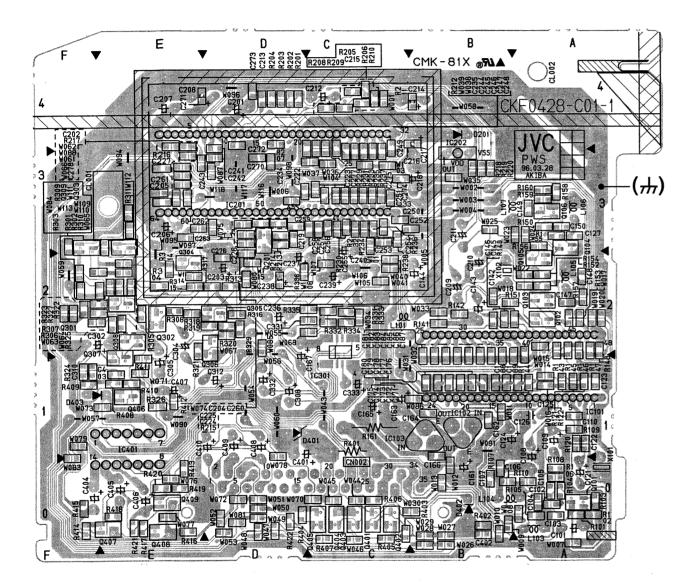
(Magnification Rate 95%) [SGK-1012A-M2] MAIN PWB PATTERN **(**上) FRONT <del>-</del>₩₩ TP-91 (B1) -(++) (#)-

PIP PWB PATTERN

[SGK0P002A-M2]

(Magnification Rate 110%)



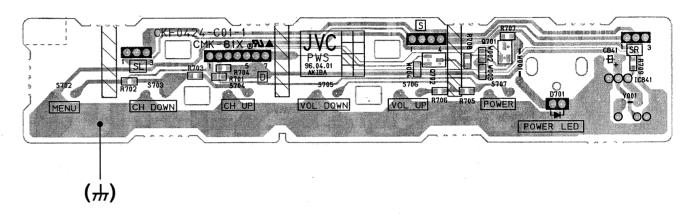


FRONT CONTROL PWB PATTERN

[SGK-4011A-M2]

(Magnification Rate 100%)

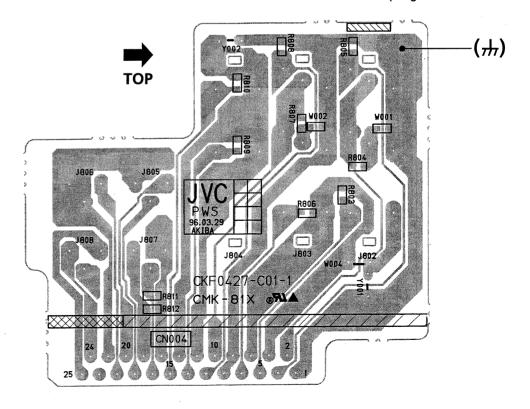
FRONT



AV JACK PWB PATTERN

[SGK0J002A-M2]

(Magnification Rate 120%)



[SGK-3012A-M2]

(Magnification Rate 160%)



